SunLong Biotech Co.,LTD
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Rabbit Anti-GFAP antibody

SL0199R

Product Name	GFAP
Chinese Name	胶质纤维酸性蛋白抗体
Alias	Astrocyte Marker; FLJ45472; GFAP; Glial Fibrillary Acidic Protein; Intermediate filament protein; GFAP_HUMAN.
Research Area	Tumour Cell biology immunology Neurobiology Signal transduction Stem cells Cell adhesion molecule Cell type markers Cytoskeleton
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Rabbit, Sheep,)
Applications	IHC-P=1:200-1000,IHC-F=1:200-1000,IF=1:200-1000,Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	48kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GFAP: 51-150/432
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is

Detail

used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]

Function:
GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.

Subunit:
Interacts with SYNM. Isoform 3 interacts with PSEN1 (via N-terminus).

Subcellular Location:
Cytoplasm. Note=Associated with intermediate filaments.

Tissue Specificity:
Expressed in cells lacking fibronectin.

Post-translational modifications:
Phosphorylated by PKN1.

DISEASE:
Defects in GFAP are a cause of Alexander disease (ALEXD) [MIM:203450]. Alexander disease is a rare disorder of the central nervous system. It is a progressive leukoencephalopathy whose hallmark is the widespread accumulation of Rosenthal fibers which are cytoplasmic inclusions in astrocytes. The most common form affects infants and young children, and is characterized by progressive failure of central myelination, usually leading to death usually within the first decade. Infants with Alexander disease develop a leukoencephalopathy with macrocephaly, seizures, and psychomotor retardation. Patients with juvenile or adult forms typically experience ataxia, bulbar signs and spasticity, and a more slowly progressive course.

Similarity:
Belongs to the intermediate filament family.

SWISS:
P14136

Gene ID:
2670

Database links:

Entrez Gene: 281189 Cow

Entrez Gene: 2670 Human

Entrez Gene: 14580 Mouse

Entrez Gene: 24387 Rat

Omim: 137780 Human

SwissProt: Q28115 Cow

SwissProt: P14136 Human

SwissProt: P03995 Mouse

星形胶质细胞 Maker （Astrocyte Marker）

GFAP 是一个 56kDa 的中间丝蛋白（intermediate filament，IF），在中枢神经系统发育期是一个特异性的 Maker，以区别星形细胞和其它胶质细胞。GFAP 表达在皮层和海马,急、慢性皮质酮治疗时表达减少。
GFAP 可以和人、大鼠、小鼠的 GFAP 反应，在正常和 Tumour 性的星形胶质细胞阳性表达，而神经节细胞、神经元、成纤维细胞、少突胶质细胞和这些细胞来源的 Tumour 细胞阴性表达，主要用于星形胶质瘤等中枢神经系统 Tumour 的诊断和鉴别诊断,GFAP 的缺乏可导致 AD 病。

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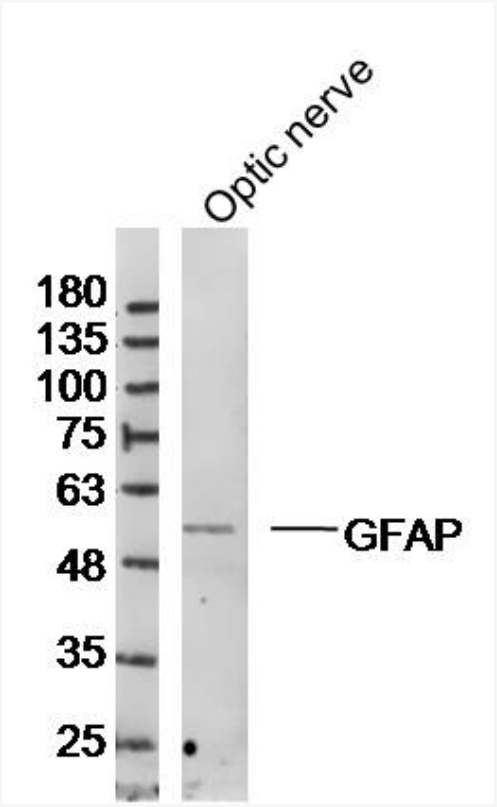
Product Picture



Sample:Optic nerve (Rat)cell Lysate at 40 ug

Primary: Anti-GFAP(SL0199R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 53 kD

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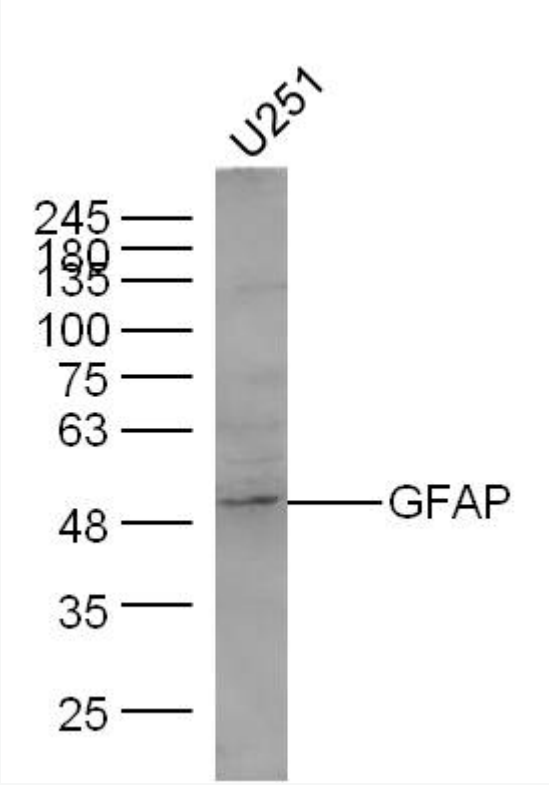

Sample: U251 Cell Lysate at 40 ug

Primary: Anti- GFAP (SL0199R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution

Predicted band size: 48 kD

Observed band size: 50 kD

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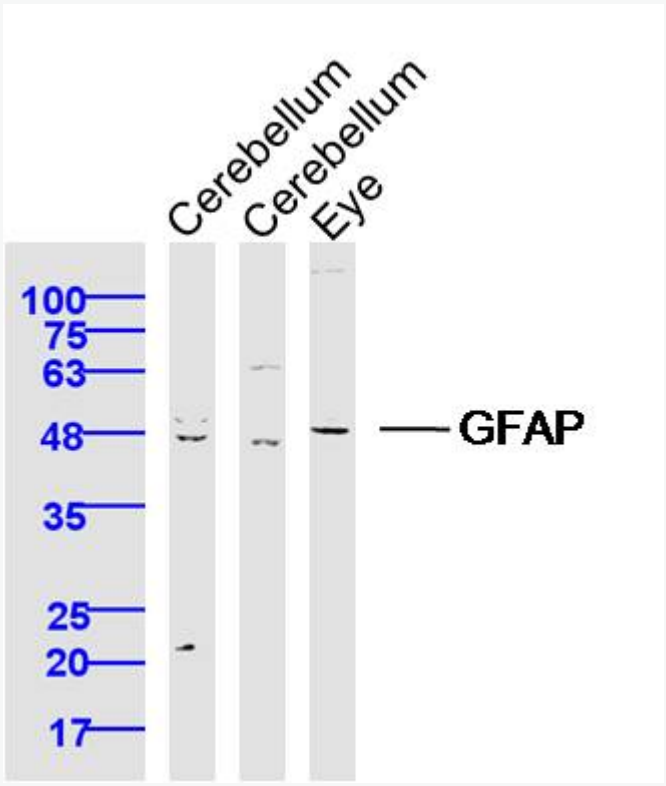


Sample:

Cerebellum (Rat) Lysate at 40 ug

Cerebellum (Mouse) Lysate at 40 ug

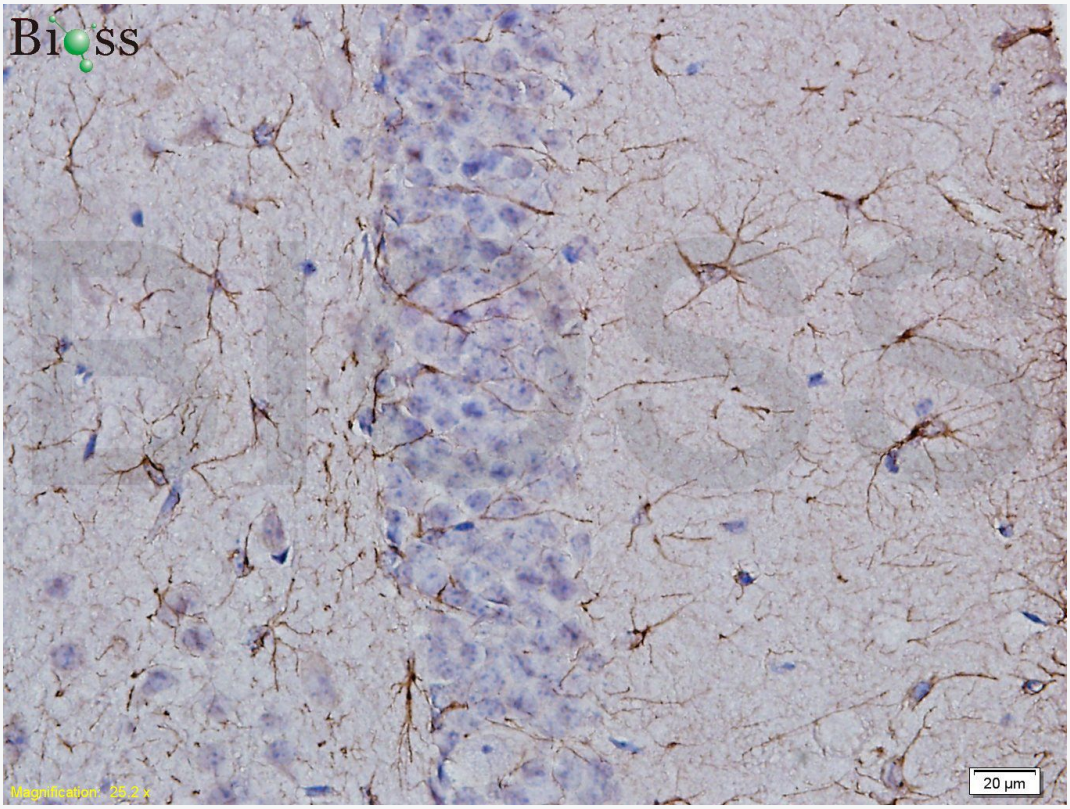
Eye (Mouse) Lysate at 40 ug

Primary: Anti-GFAP (SL0199R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 48 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-GFAP Polyclonal Antibody, Unconjugated(SL0199R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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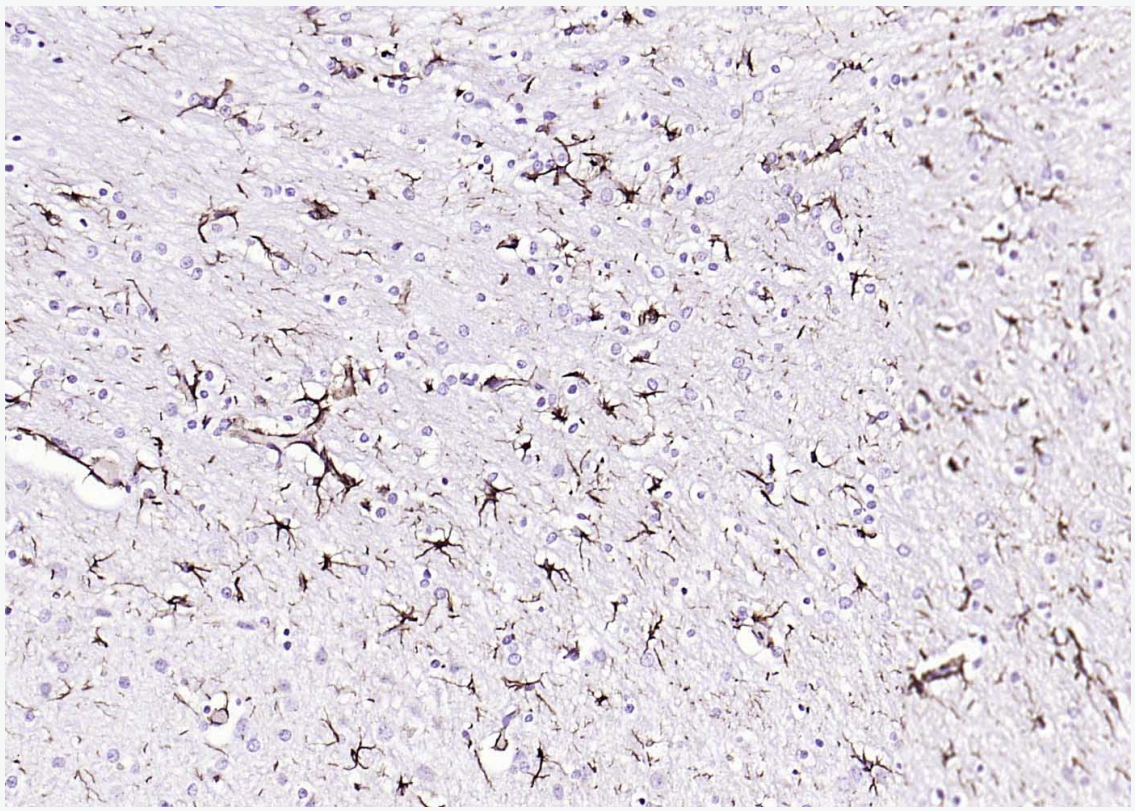

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GFAP) Polyclonal Antibody, Unconjugated (SL0199R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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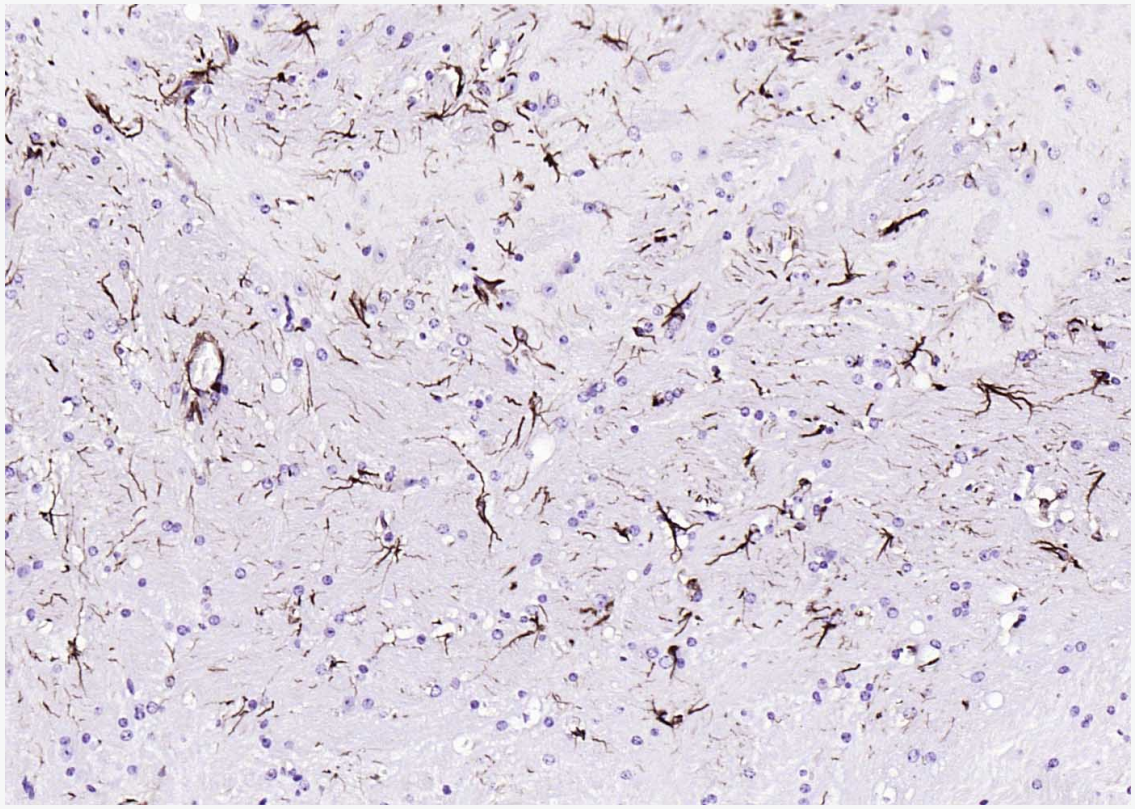

Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GFAP) Polyclonal Antibody, Unconjugated (SL0199R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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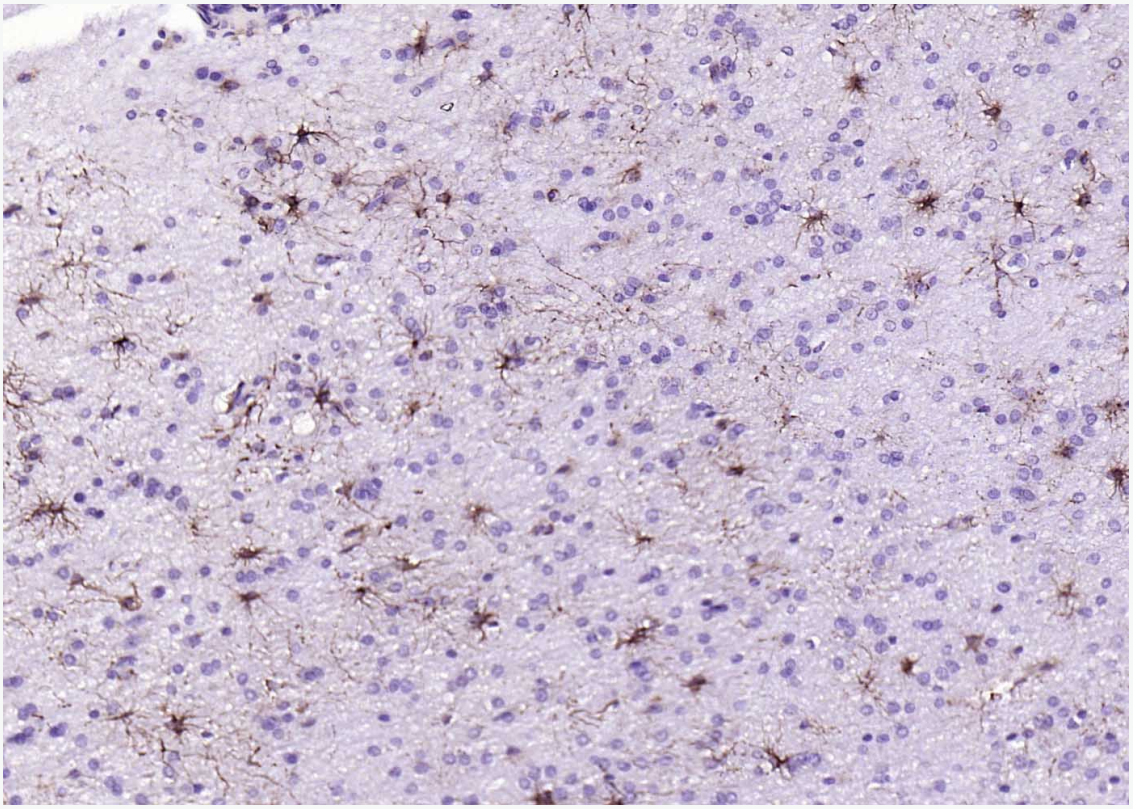

Paraformaldehyde-fixed, paraffin embedded (human glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GFAP) Polyclonal Antibody, Unconjugated (SL0199R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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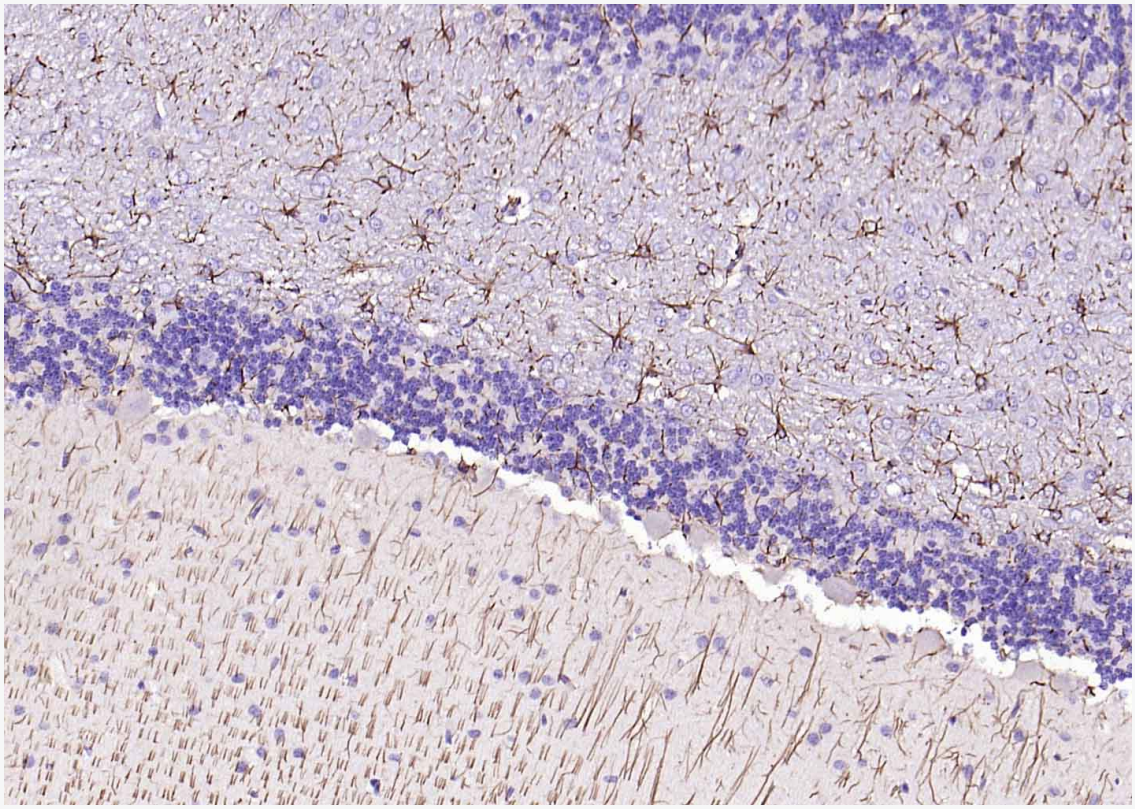

Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GFAP) Polyclonal Antibody, Unconjugated (SL0199R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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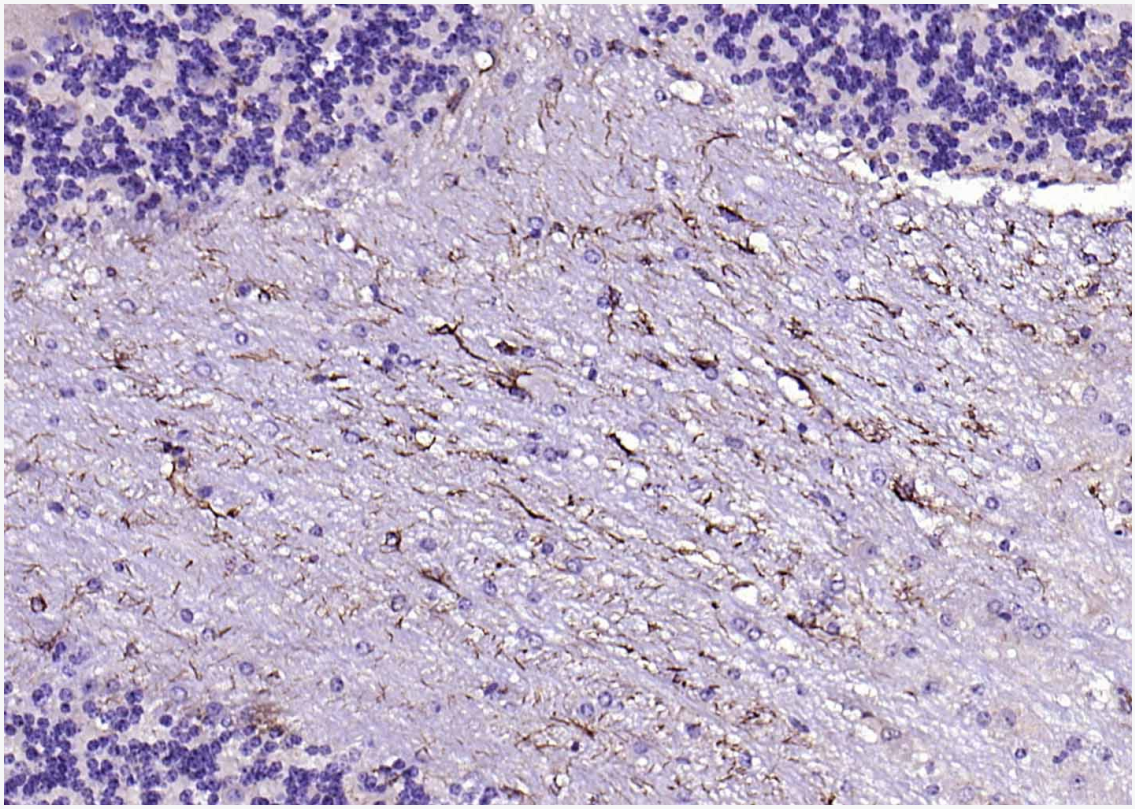

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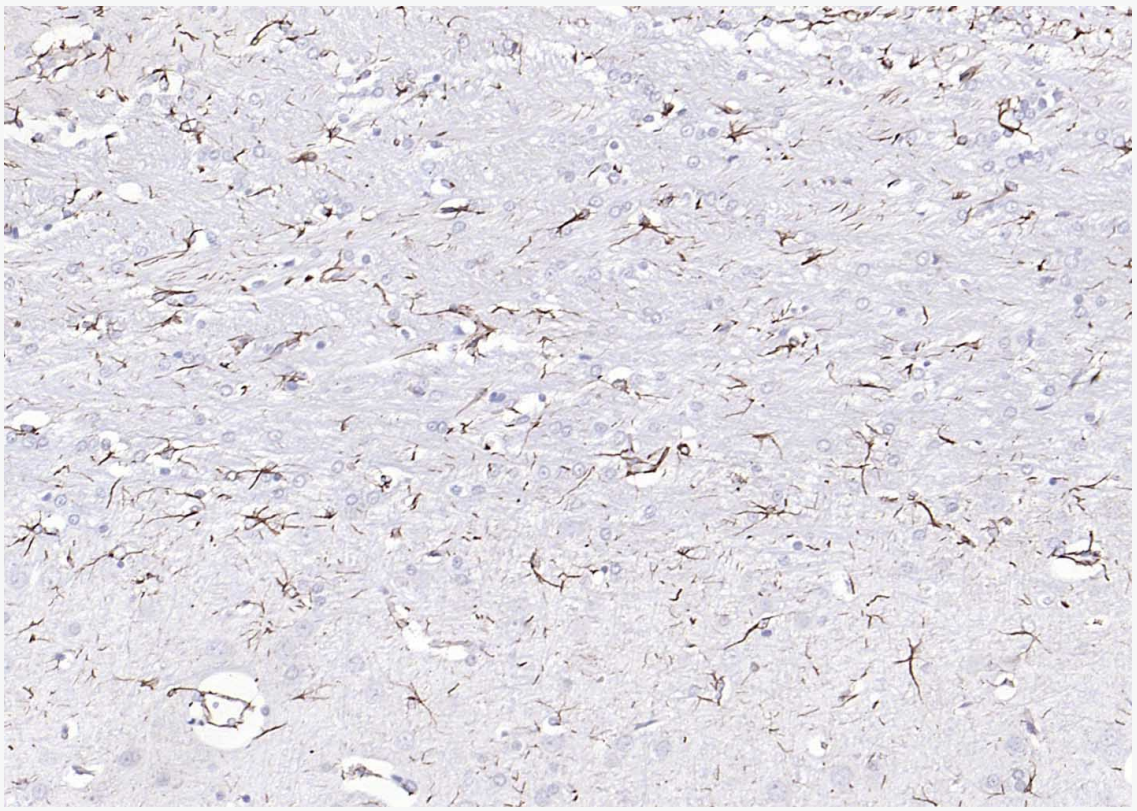

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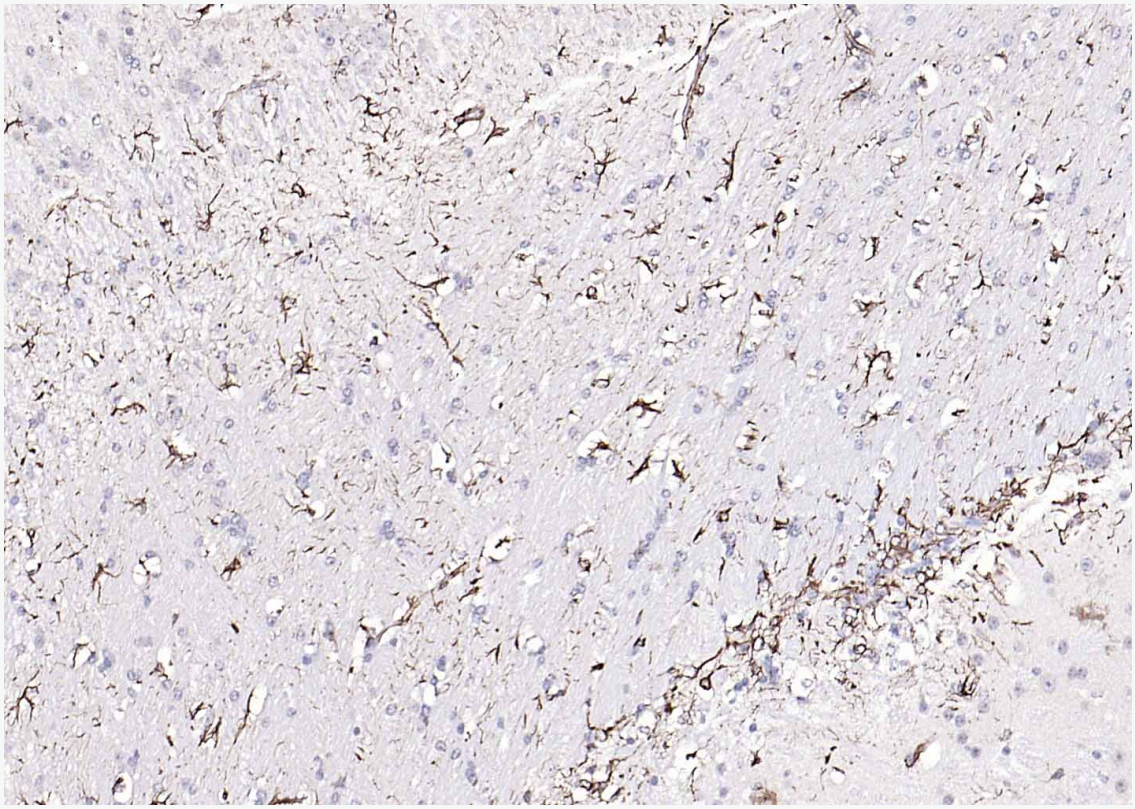

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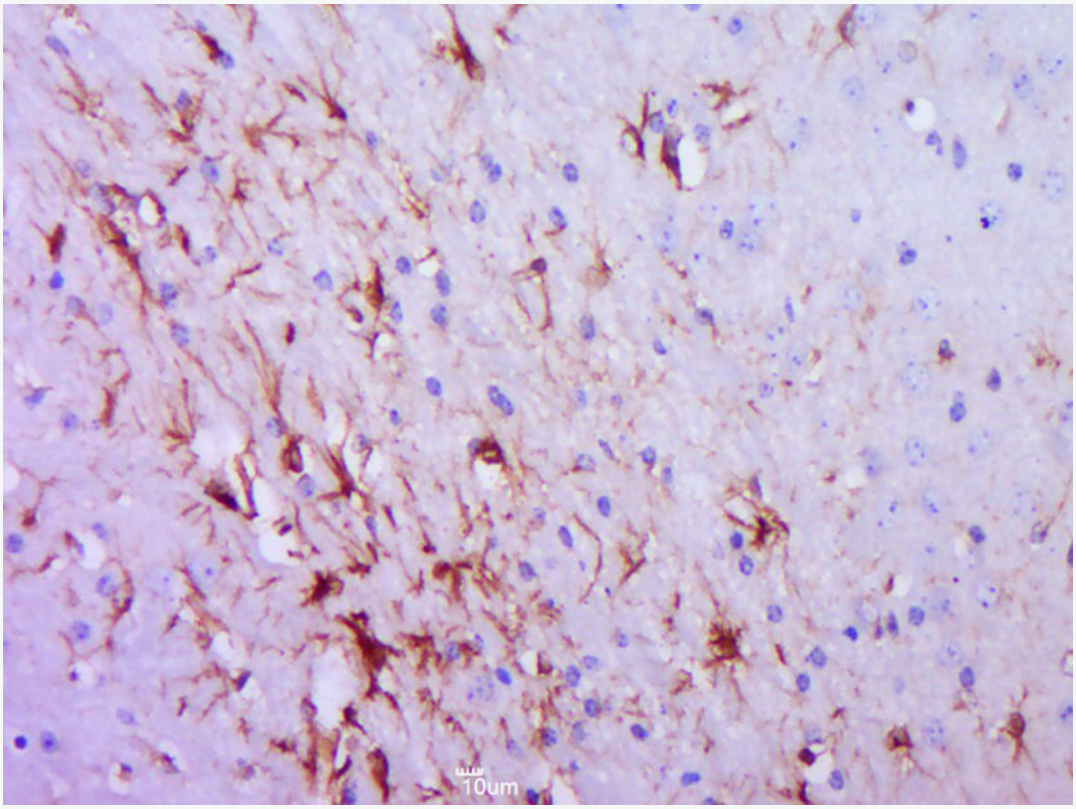

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GFAP) Polyclonal Antibody, Unconjugated (SL0199R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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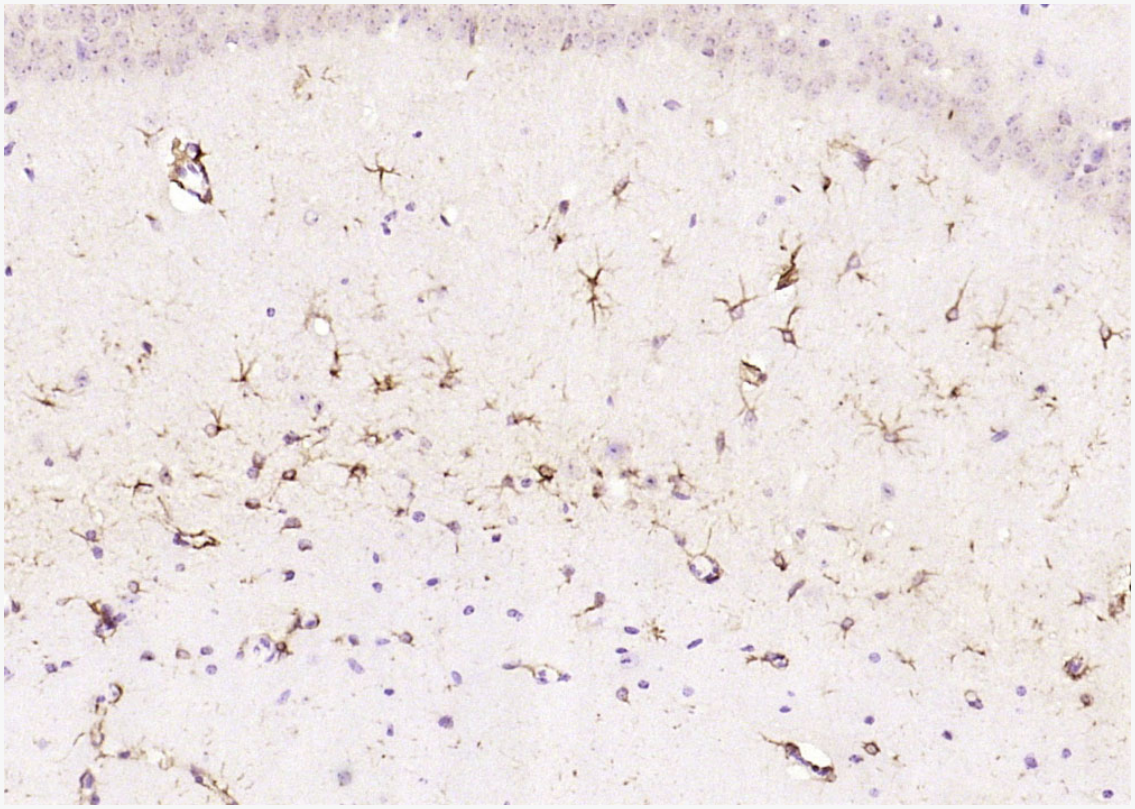

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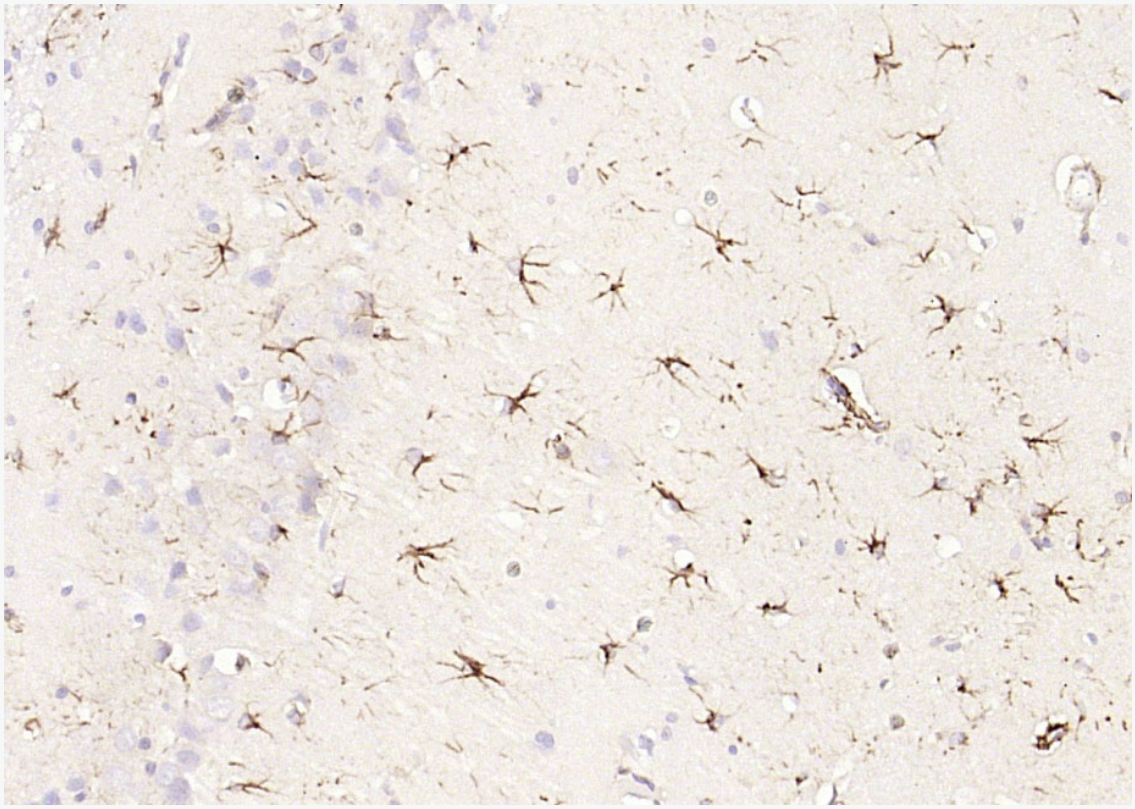

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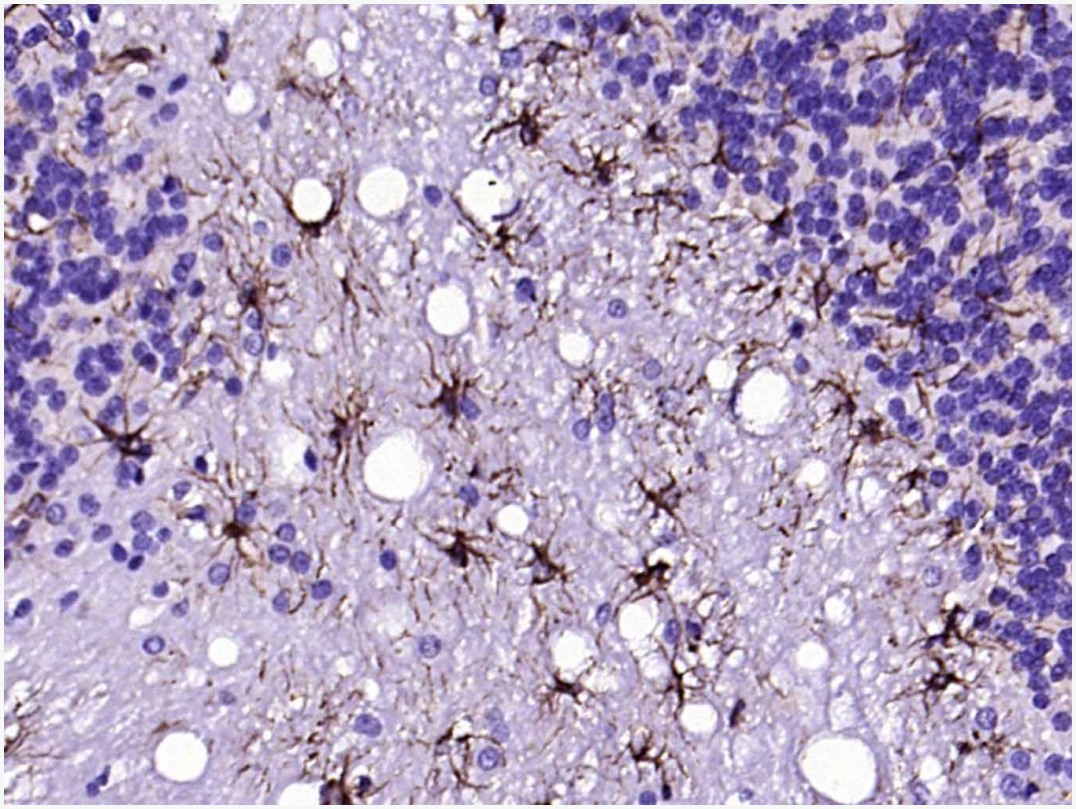

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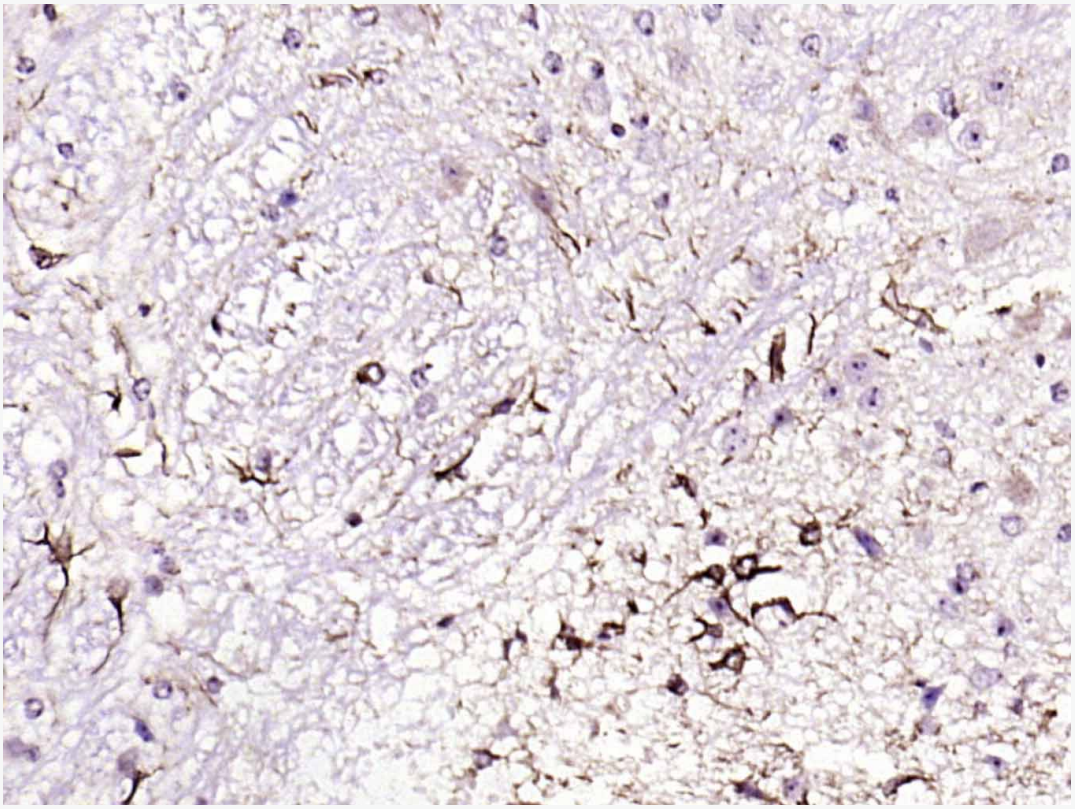

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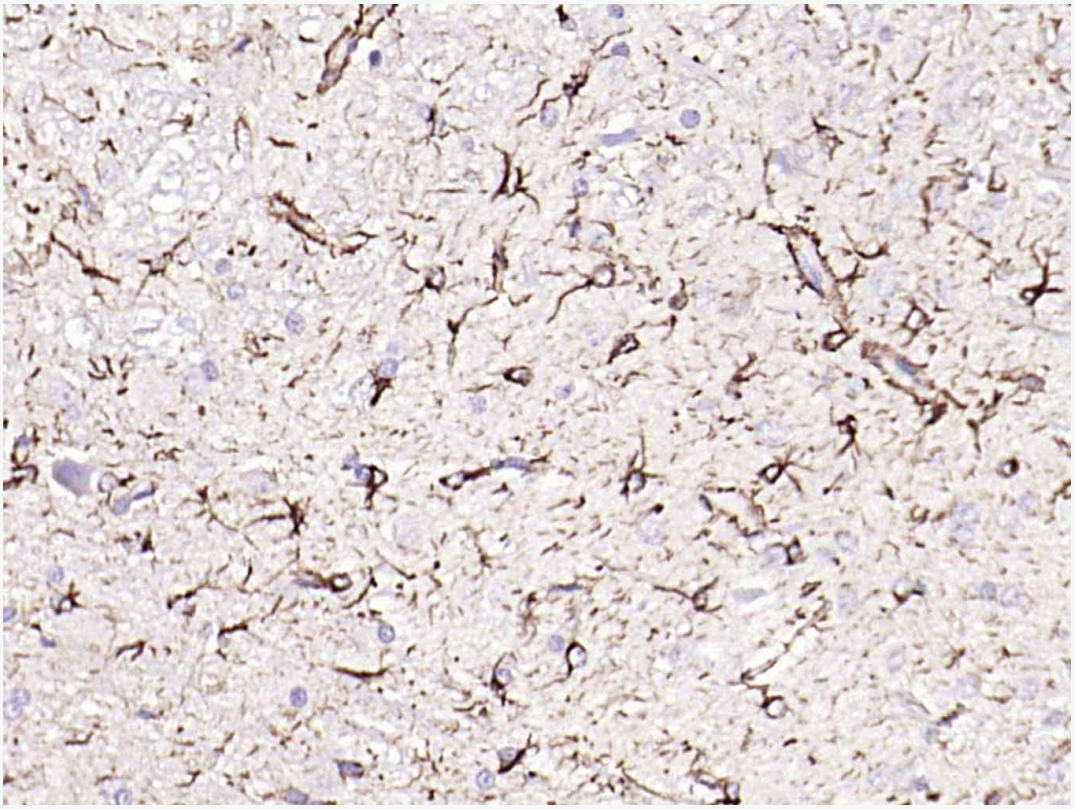

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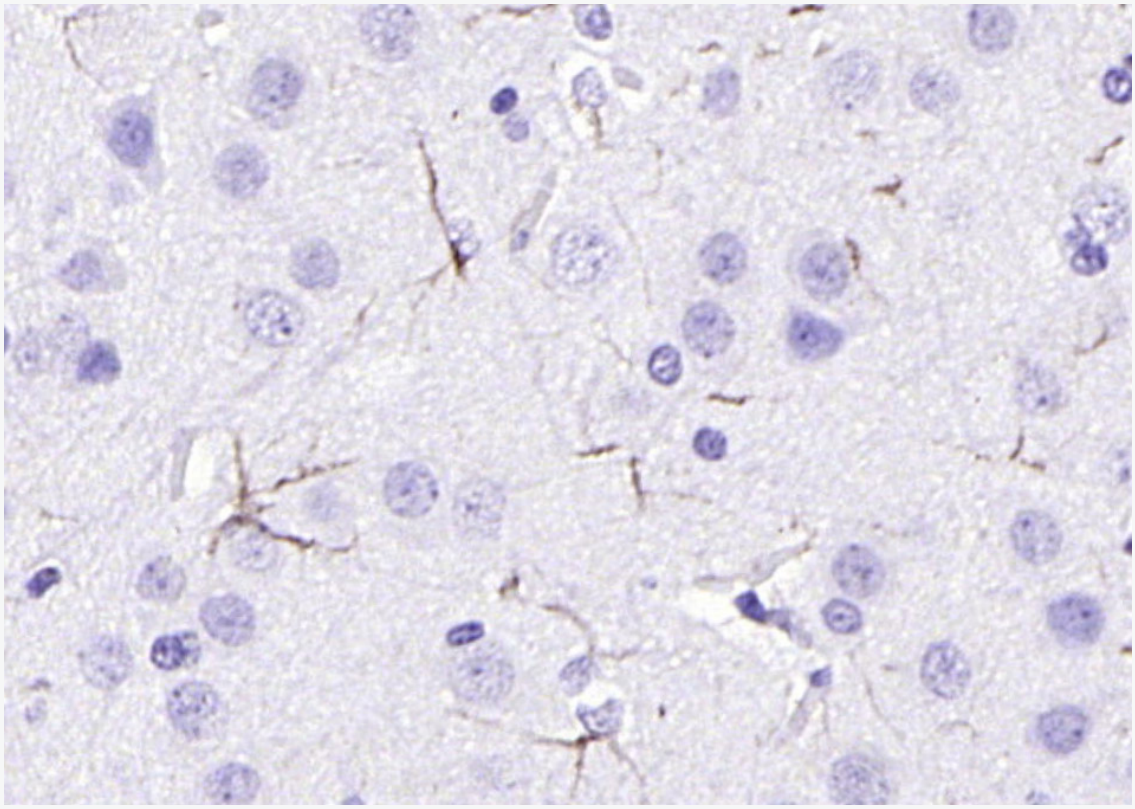

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