SunLong Biotech Co.,LTD
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Rabbit Anti-ZNF312 antibody

SL12148R

Product Name	ZNF312
Chinese Name	Zinc finger protein312 抗体
Alias	Fez; FEZ family zinc finger protein 2; FEZF 2; FEZF2; FEZL; FKSG36; FLJ10142; Forebrain embryonic zinc finger like protein 2; TOF; ZFP 312; Zfp312; Zinc finger FEZL; Zinc finger protein 312; Zinc finger protein FEZ like; ZNF 312; FEZF2_HUMAN.
Research Area	Cell biology Neurobiology Signal transduction transcriptional regulatory factor Zinc finger protein Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, Rat, (predicted: Human, Dog, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	49kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ZNF312: 10-120/459
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 ℃ 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

ZNF312, also known as Fezf2 or Fez-like, is a zinc finger protein that acts as a transcriptional repressor during the development of corticospinal motor neurons and other subcerebral projection neurons. ZNF312 is expressed by early progenitor cells in the ventricular zone. It regulates the fate choice of subcortical projection neurons in the developing cerebral cortex. This protein is expressed in the developing cortical plate during early embryonic development. During late embryonic development and early postnatal development, ZNF312 expression disappears from the cortical progenitors and becomes restricted to the subplate nad the prospective layer V and VI pyramidal neurons.

Function:
Transcription repressor. Required for the specification of corticospinal motor neurons and other subcerebral projection neurons. May play a role in layer and neuronal subtype-specific patterning of subcortical projections and axonal fasciculation. Controls the development of dendritic arborization and spines of large layer V pyramidal neurons. May be involved in innate immunity (By similarity).

Subcellular Location:
Nuclear.

Product Detail

Similarity:
Belongs to the krueppel C2H2-type zinc-finger protein family.
Contains 6 C2H2-type zinc fingers.

SWISS:
Q8TBJ5

Gene ID:
55079

Database links:

Entrez Gene: 55079 Human

Entrez Gene: 54713 Mouse

Entrez Gene: 305719 Rat

Omim: 607414 Human

SwissProt: Q8TBJ5 Human

SwissProt: Q9ESP5 Mouse

Unigene: 241523 Human

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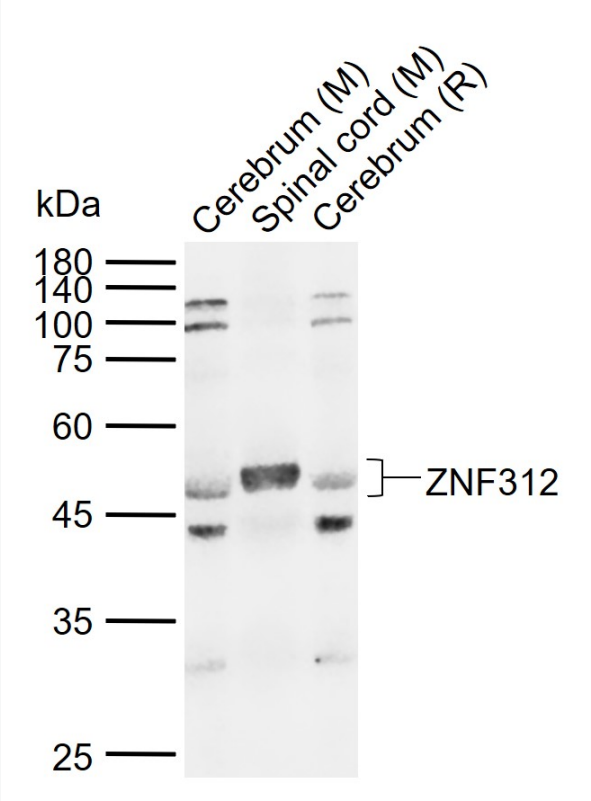
Product Picture



Sample:

Lane 1: Mouse Cerebrum tissue lysates

Lane 2: Mouse Spinal cord tissue lysates

Lane 3: Rat Cerebrum tissue lysates

Primary: Anti-ZNF312 (SL12148R) at 1/1000 dilution

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

Predicted band size: 49 kDa

Observed band size: 49 kDa

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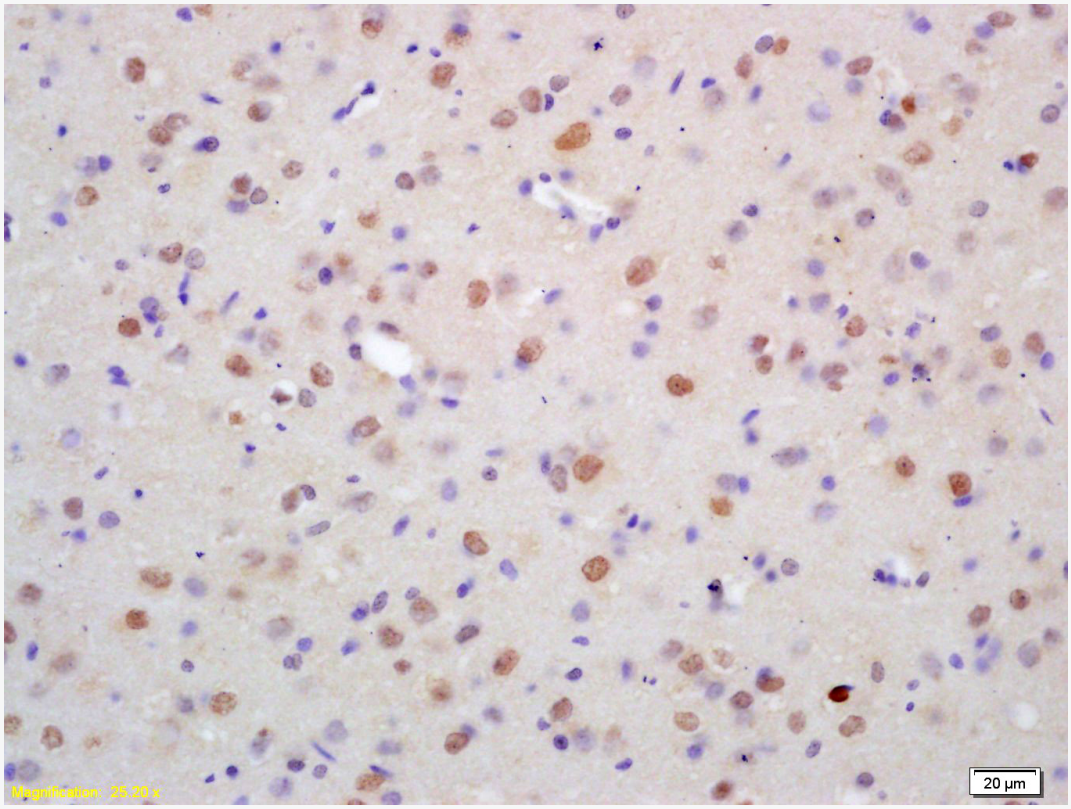

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-ZNF312 Polyclonal Antibody, Unconjugated(SL12148R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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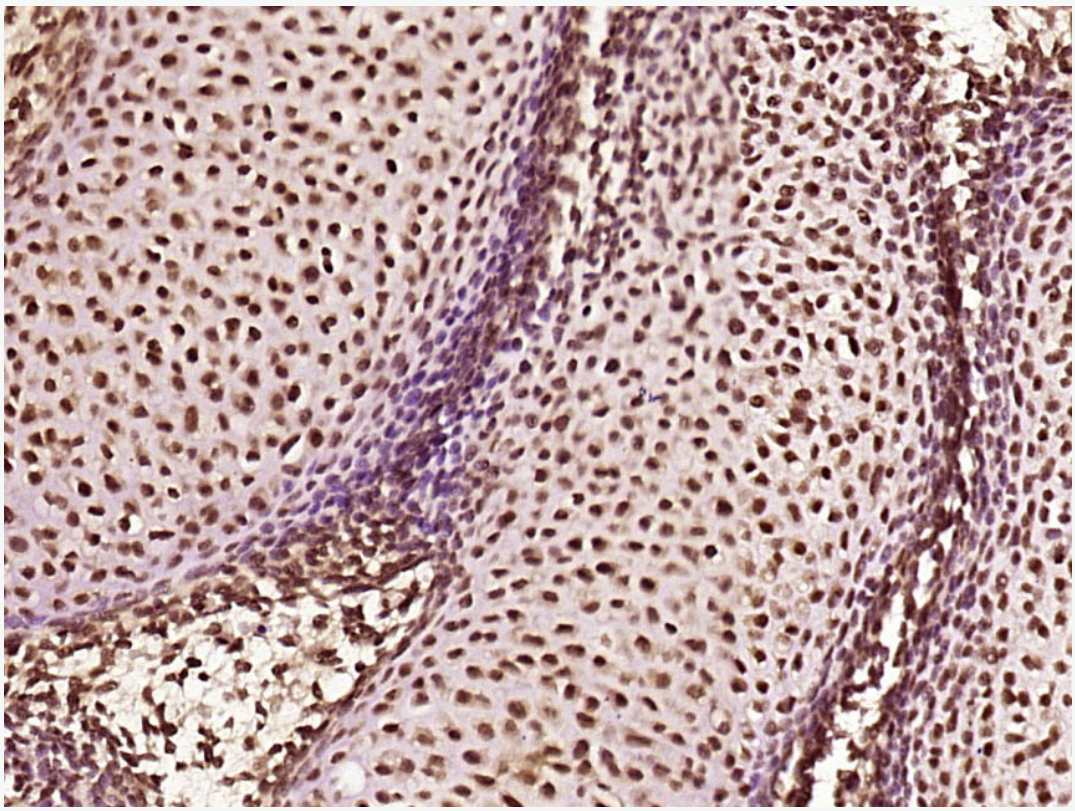

Paraformaldehyde-fixed, paraffin embedded (Mouse embryos); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ZNF312) Polyclonal Antibody, Unconjugated (SL12148R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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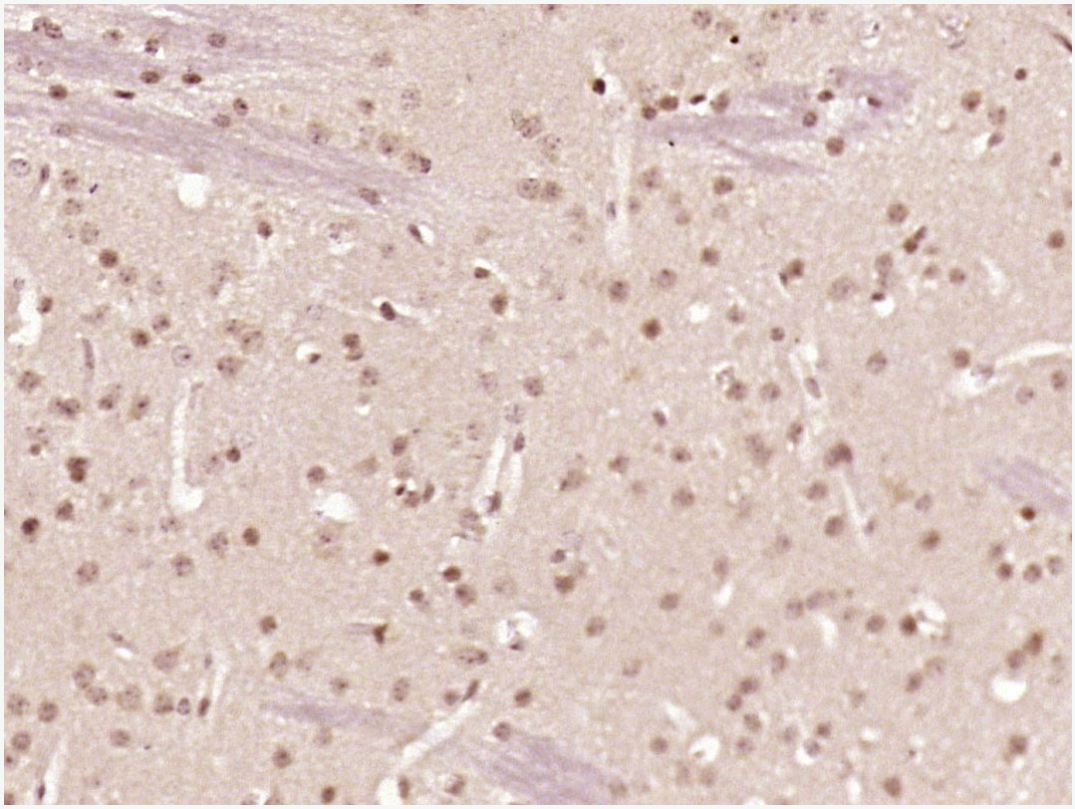

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ZNF312) Polyclonal Antibody, Unconjugated (SL12148R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.