SunLong Biotech Co.,LTD
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Rabbit Anti-TAGLN3 antibody

SL12041R

Product Name	TAGLN3
Chinese Name	神经元蛋白 22 抗体
Alias	Neuronal protein 22; Neuronal protein NP25; NP22; NP25; TAGL3_HUMAN; TAGLN3; Transgelin 3; Transgelin-3.
Research Area	Neurobiology Stem cells
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Chicken,Dog,Pig,Cow,Sheep)
Applications	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	22kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TAGLN3/NP22: 8-110/199
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 Detail	Transgelin is a homolog of transgelin and is also expressed in smooth muscle

cells and by peritoneal B-1 cells. Unlike the other two transgelin proteins, transgelin-3 (also designated TAGLN2, NP22 (neuronal protein 22) or NP25) is predominantly expressed in brain. Transgelin-3 contains a putative Actin-binding domain, two EF-hand motifs, two potential phosphorylation sites and a calponin-homology (CH) domain. Transgelin-3 shares homology with transgelin and Calponin, two cytoskeleton-interacting proteins. Belonging to the calponin family, transgelin-3 colocalizes with Actin and Tubulin, suggesting a possible role for transgelin-3 in neuronal plasticity or as a signaling protein. Due to a varied expression pattern, transgelin-3 may play different roles in the developing and adult brain. Expression of transgelin-3 is upregulated in regions of the human alcoholic brain.

Tissue Specificity:
Widely expressed in the brain. Expression is increased in the superior frontal cortex of alcoholics, but not in the motor cortex or cerebellum.

Similarity:
Belongs to the calponin family.
Contains 1 calponin-like repeat.
Contains 1 CH (calponin-homology) domain.

SWISS:
Q9UI15

Gene ID:
29114

Database links:

Entrez Gene: 29114 Human

Entrez Gene: 56370 Mouse

Entrez Gene: 63837 Rat

Entrez Gene: 515562 Cow

Omim: 607953 Human

SwissProt: Q3ZBY2 Cow

SwissProt: Q9UI15 Human

SwissProt: Q9R1Q8 Mouse

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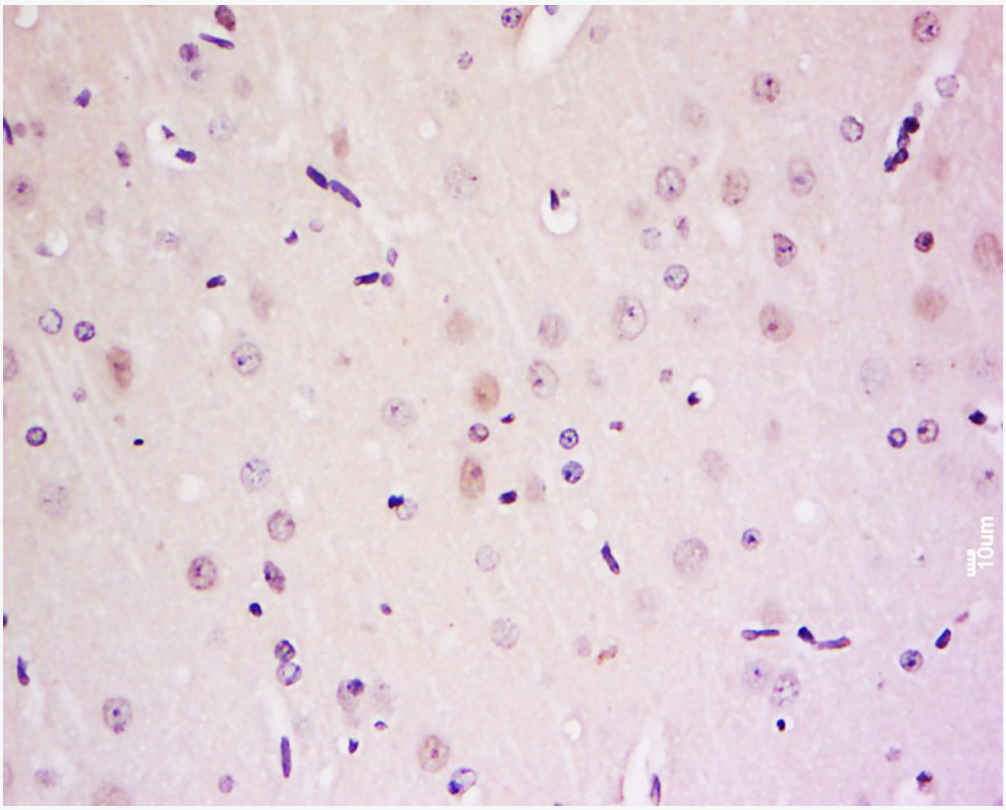
SwissProt: P37805 Rat

Unigene: 169330 Human

Unigene: 24183 Mouse

Unigene: 10998 Rat

Product Picture



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°C for 20 min;

Incubation: Anti-TAGLN3 Polyclonal Antibody, Unconjugated(SL12041R)

1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining