SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-AMIGO2 antibody

Catalog Number: SL11450R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	AMIGO2
Immunogen:	KLH conjugated synthetic peptide derived from human AMIGO2: 21-120/522 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
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.
Reactivity:	Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Horse, Sheep)
Predicted MW.:	54kDa
Subcellular Location:	The nucleus The cell membrane
Background:	The amphoterin-induced gene and ORF (AMIGO) family of proteins consists of AMIGO-1, AMIGO-2 and AMIGO-3. All three members are single pass type I membrane proteins that contain several leucine-rich repeats, one IgG domain, and a transmembrane domain. The AMIGO proteins are specifically expressed on fiber tracts of neuronal tissues and participate in their formation. The AMIGO proteins can form complexes with each other, but can also bind itself. AMIGO-1, also designated Alivin-2, promotes growth and fasciculation of neurites and plays a role in myelination and fasciculation of developing neural axons. In cerebellar neurons, AMIGO-2 (Alivin-1) is crucial for depolarization-dependent survival. Similar to AMIGO-1 and AMIGO-2, AMIGO-3 (Alivin-3) plays a role in homophilic and/or heterophilic cell-cell

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	interaction and signal transduction. **Function:** A novel primary response gene, AMIGO2, is an activity-dependent gene and promotes survival of neurons. Sequence analyses reveal that rat, mouse, and human AMIGO2 proteins contain seven leucine-rich repeats, one IgC2-like loop and a transmembrane domain, and display homology to Kek and Trk families. Results suggest that expression of ali1 promotes depolarization-dependent survival of the granule neuron. Mouse AMIGO2 was mapped to a locus approximately 55.3 cm from the centromere on chromosome 15 that is syntenic to positional candidate loci for familial Alzheimer's disease type 5 and Parkinson's disease 8 on human chromosome 12. **Subunit:** Binds itself as well as AMIGO1 and AMIGO3 (By similarity). **Subcellular Location:** Cell membrane; Single-pass type I membrane protein. Nucleus. **Note:** Associated with nucleus as well as plasma membrane. Restricted to somata of cerebellar as well as hippocampal neurons By **Tissue Specificity:** Highest levels in breast, ovary, cervix, and uterus. Lower levels in lung, colon, and rectum. Differentially expressed in 56% of thyroid, 57% of pancreatic and 45% of stomach cancers. **Similarity:** Belongs to the immunoglobulin superfamily. AMIGO family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 6 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain. **Database links:** **Entrez Gene:** 347902 Human **SwissProt:** Q86SJ2 Human **Unigene:** 121520 Human

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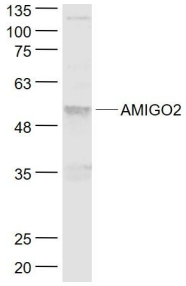
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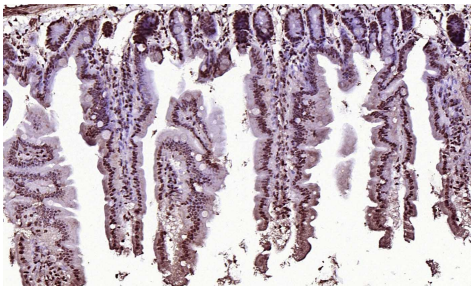
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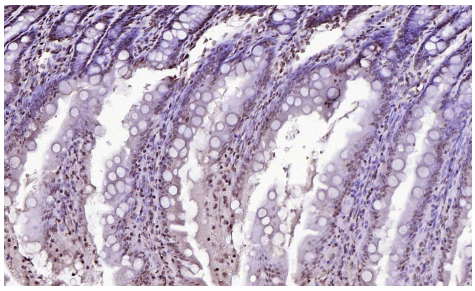
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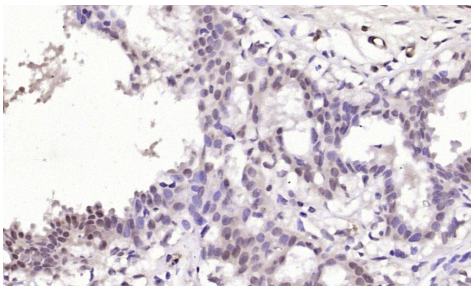
Sample:
Hela(Human) Cell Lysate at 30 ug
Primary: Anti- AMIGO2 (SL11450R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 54 kD
Observed band size: 54 kD



Paraformaldehyde-fixed, paraffin embedded (mouse small intestine); 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 (AMIGO2) Polyclonal Antibody, Unconjugated (SL11450R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat small intestine); 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 (AMIGO2) Polyclonal Antibody, Unconjugated (SL11450R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human breast); 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 (AMIGO2) Polyclonal Antibody, Unconjugated (SL11450R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

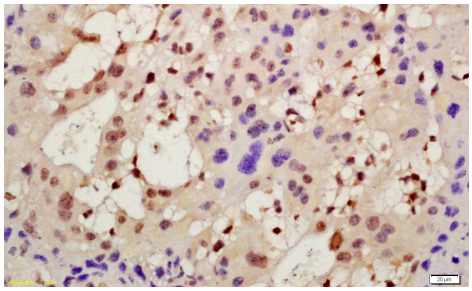
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Tissue/cell: mouse placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-AMIGO2 Polyclonal Antibody, Unconjugated(SL11450R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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