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[Primary Antibody]

Rabbit Anti-Semaphorin 3F antibody

Catalog Number: SL23827R

FOR RESEARCH USE ONLY

[DATASHEET]

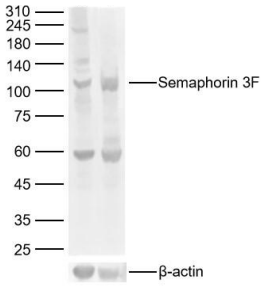
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Semaphorin 3F
Immunogen:	KLH conjugated synthetic peptide derived from human Semaphorin 3F
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. 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:	Mouse,Rat(predicted:Human,Chicken,Dog,Pig,Cow,Rabbit,Sheep)
Predicted MW.:	88kDa
Subcellular Location:	Secretory protein
Background:	The semaphorins are a family of proteins that are involved in signaling. All the family members have a secretion signal, a 500-amino acid sema domain, and 16 conserved cysteine residues(Kolodkin et al., 1993 [PubMed 8269517]). Sequence comparisons have grouped the secreted semaphorins into 3 general classes, all of which also have an immunoglobulin domain. The semaphorin III family, consisting of human semaphorin III (SEMA3A; MIM 603961), chicken collapsin, and mouse semaphorins A, D, and E, all have a basic domain at the C terminus. Chicken collapsin contributes to path finding by axons during development by inhibiting extension of growth cones (Luo et al., 1993 [PubMed 8402908]) through an interaction with a collapsin response mediator protein of relative molecular mass 62K (CRMP62) (Goshima et al., 1995 [PubMed7637782]), a putative homolog of an axonal

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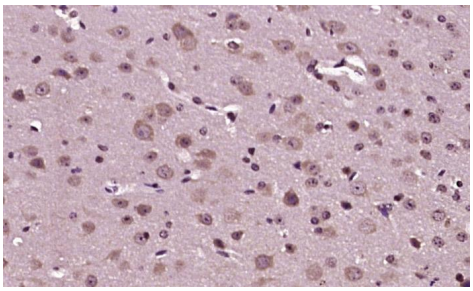
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	guidance associated UNC33 gene product (MIM 601168). SEMA3F is a secreted member of the semaphorin III family. **Function:** May play a role in cell motility and cell adhesion. **Subunit:** Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Sema domain. **Subcellular Location:** Secreted. **Tissue Specificity:** Expressed abundantly but differentially in a variety of neural and nonneural tissues. There is high expression in mammary gland, kidney, fetal brain, and lung and lower expression in heart and liver. **Database links:** **Entrez Gene:** 6405 Human **Entrez Gene:** 20350 Mouse **Entrez Gene:** 315996 Rat Omim: 601124 Human **SwissProt:** Q13275 Human **SwissProt:** O88632 Mouse **Unigene:** 32981 Human **Unigene:** 12903 Mouse **Unigene:** 205616 Rat

[VALIDATION IMAGES]



Sample:
Lane 1: Mouse Brain Lysates
Lane 2: Rat Brain Lysates
Primary: Anti-Semaphorin 3F(SL23827R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 88kDa
Observed band size: 100 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); 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 (Semaphorin 3F) Polyclonal Antibody, Unconjugated (SL23827R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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