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[Primary Antibody]

Rabbit Anti-Semaphorin 3E antibody

Catalog Number: SL11480R

FOR RESEARCH USE ONLY

[DATASHEET]

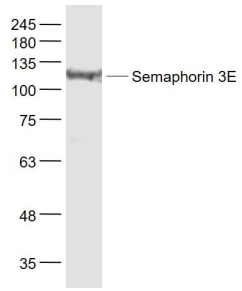
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Semaphorin 3E
Immunogen:	KLH conjugated synthetic peptide derived from human SEMA3E/Semaphorin 3E: 401-450/775
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, (predicted: Rat, Pig, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	86kDa
Subcellular Location:	Secretory protein
Background:	Semaphorins are a large family of conserved secreted and membrane associated proteins which possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Based on sequence and structural similarities, semaphorins are put into eight classes: invertebrates contain classes 1 and 2, viruses have class V, and vertebrates contain classes 3-7. Semaphorins serve as axon guidance ligands via multimeric receptor complexes, some (if not all) containing plexin proteins. This gene encodes a class 4 semaphorin. This gene encodes a class 3 semaphorin. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010] **Function:** Plays an important role in signaling via the cell surface receptor PLXND1. Mediates reorganization of the actin cytoskeleton, leading to the retraction of cell projections. Promotes focal adhesion disassembly and inhibits adhesion of endothelial cells to the extracellular matrix. Regulates

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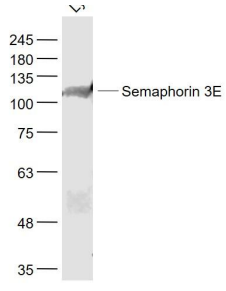
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	angiogenesis, both during embryogenesis and after birth. Can down-regulate sprouting angiogenesis. Required for normal vascular patterning during embryogenesis. Plays an important role in ensuring the specificity of synapse formation **Subunit:** Interacts with PLXND1 **Subcellular Location:** Secreted. **Similarity:** Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Sema domain. **Database links:** **Entrez Gene:** 9723 Human **Entrez Gene:** 20349 Mouse **Entrez Gene:** 100524100 Pig **Entrez Gene:** 296789 Rat **Entrez Gene:** 535644 Cow **Entrez Gene:** 483387 Dog Omim: 608166 Human **SwissProt:** O15041 Human **SwissProt:** P70275 Mouse **SwissProt:** Q9QX23 Mouse **Unigene:** 528721 Human **Unigene:** 134093 Mouse **Unigene:** 214084 Rat

[VALIDATION IMAGES]



Sample:
DU145(Human) Cell Lysate at 30 ug
Primary: Anti- Semaphorin 3E (SL11480R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 86 kD
Observed band size: 111 kD



Sample:
Lymph node (Mouse) Lysate at 40 ug
Primary: Anti- Semaphorin 3E (SL11480R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 86 kD
Observed band size: 111 kD

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