

Product Data Sheet

Anti-Semaphorin 4A Antibody

Catalog #	Source	Reactivity	Applications
CPA2752	Rabbit	H, Mk	WB, IF/IC, IP
Description	Rabbit polyclonal antibody to Semaphorin 4A		
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Semaphorin 4A. The exact sequence is proprietary.		
Purification	The antibody was purified by immunogen affinity chromatography.		
Specificity	Recognizes endogenous levels of Semaphorin 4A protein.		
Clonality	Polyclonal		
Form	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		
Dilution	WB (1/500 - 1/1000), IF/IC (1/100 - 1/500), IP (1/10 - 1/100)		
Gene Symbol	SEMA4A		
Alternative Names	SEMAB; SEMB; Semaphorin-4A; Semaphorin-B; Sema B		
Entrez Gene	64218 (Human)		
SwissProt	Q9H3S1 (Human)		
Storage/Stability	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.		

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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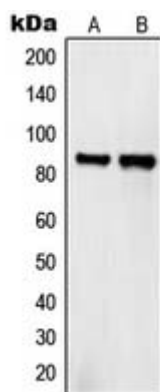
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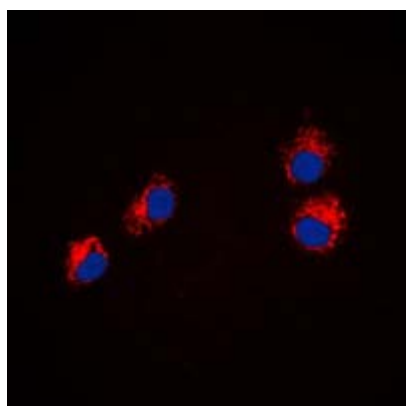
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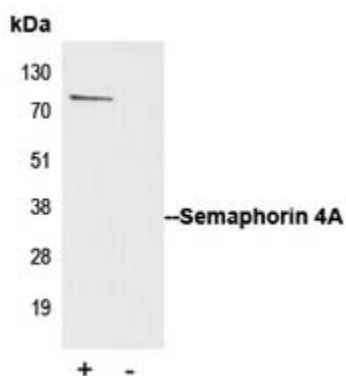
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Western blot analysis of Semaphorin 4A expression in HeLa (A), COS7 (B) whole cell lysates.



Immunofluorescent analysis of Semaphorin 4A staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Immunoprecipitation of Semaphorin 4A from 0.5mg Jurkat whole cell extract lysate, using 5ug of Anti-Semaphorin 4A Antibody and 50ul of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Jurkat whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40ul SDS loading buffer and incubated for 10min at 70°C; 10ul of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with Anti-Semaphorin 4A Antibody.

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