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PLXNA1

Purified Mouse Monoclonal Antibody
Catalog # AO2683a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q9UIW2
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8A10A6
Isotype	Mouse IgG1
Calculated MW	211067
Immunogen	Purified recombinant fragment of human PLXNA1 (AA: 1100-1200) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	5361
Other Names	NOV; NOVP; PLXN1; PLEXIN-A1
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~ 1/100 - 1/500 E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PLXNA1 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PLXNA1 (HGNC:9099)
Synonyms	NOV, PLXN1
Function	Coreceptor for SEMA3A, SEMA3C, SEMA3F and SEMA6D. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm. Acts as coreceptor of TREM2

	for SEMA6D in dendritic cells and is involved in the generation of immune responses and skeletal homeostasis.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P70206}; Single-pass type I membrane protein
Tissue Location	Detected in fetal brain, lung, liver and kidney.

References

1.PLoS One. 2016 Mar 10;11(3):e0149833. 2.World J Gastroenterol. 2007 Dec 28;13(48):6558-61.

Images

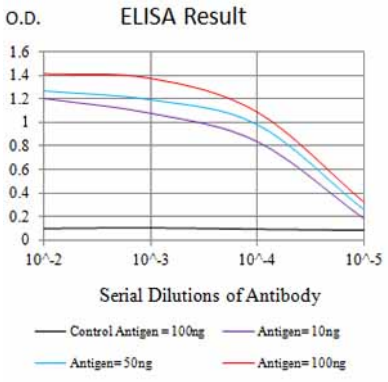


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

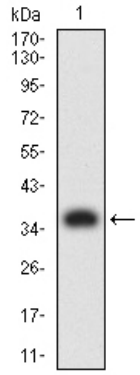


Figure 2:Western blot analysis using PLXNA1 mAb against human PLXNA1 (AA: 1100-1200) recombinant protein. (Expected MW is 36.8 kDa)

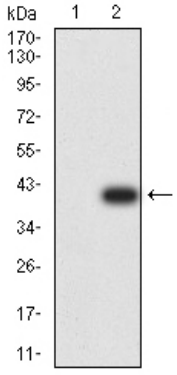
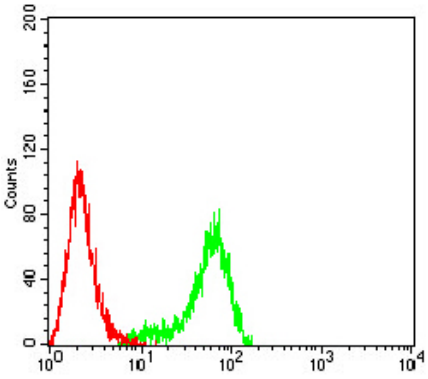


Figure 3:Western blot analysis using PLXNA1 mAb against HEK293 (1) and PLXNA1 (AA: 1100-1200)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 5:Flow cytometric analysis of Hela cells using PLXNA1 mouse mAb (green) and negative control (red).



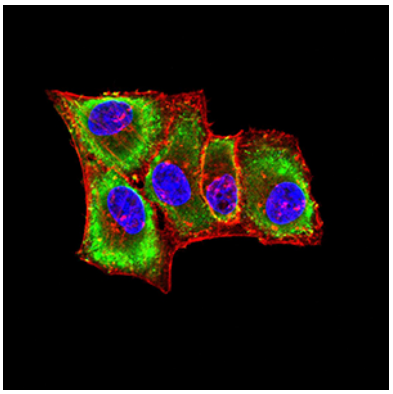


Figure 4:Immunofluorescence analysis of Hela cells using PLXNA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)