

PLXNA1
Purified Mouse Monoclonal Antibody
Catalog # AO2683a**Specification**

PLXNA1 - Product Information

Application	E, WB, FCM, ICC
Primary Accession	Q9UIW2
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	211kDa KDa

Immunogen

Purified recombinant fragment of human PLXNA1 (AA: 1100-1200) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

PLXNA1 - Additional Information

Gene ID 5361

Other Names

NOV; NOV; PLXN1; PLEXIN-A1

Dilution

E~~ 1/10000
WB~~ 1/500 - 1/2000
FCM~~1/200 - 1/400
ICC~~ 1/100 - 1/500

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.

PLXNA1 - 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 (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Detected in fetal brain, lung, liver and kidney.

PLXNA1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PLXNA1 - Images

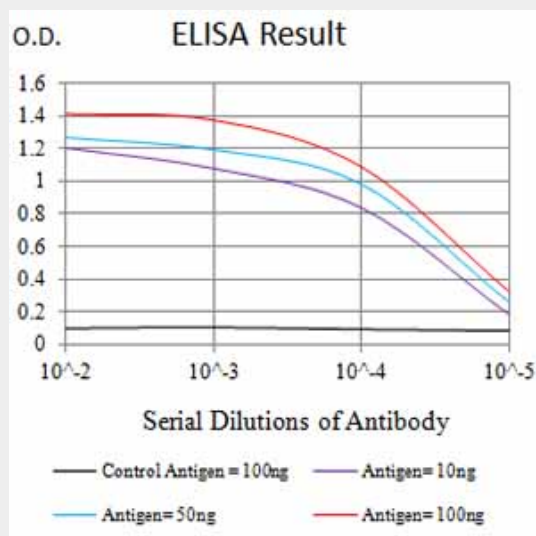


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

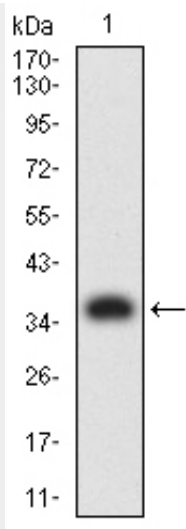


Figure 2: Western blot analysis using PLXNA1 mAb against human PLXNA1 (AA: 1100-1200) recombinant protein. (Expected MW is 36.8 kDa)

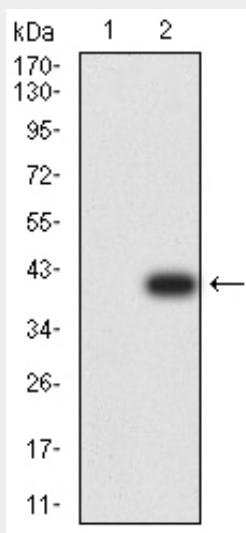


Figure 3: Western blot analysis using PLXNA1 mAb against HEK293 (1) and PLXNA1 (AA: 1100-1200)-hlgGfC transfected HEK293 (2) cell lysate.

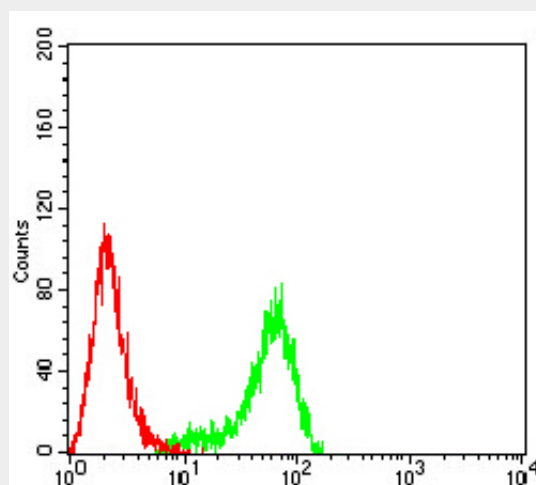


Figure 5: Flow cytometric analysis of Hela cells using PLXNA1 mouse mAb (green) and negative

control (red).

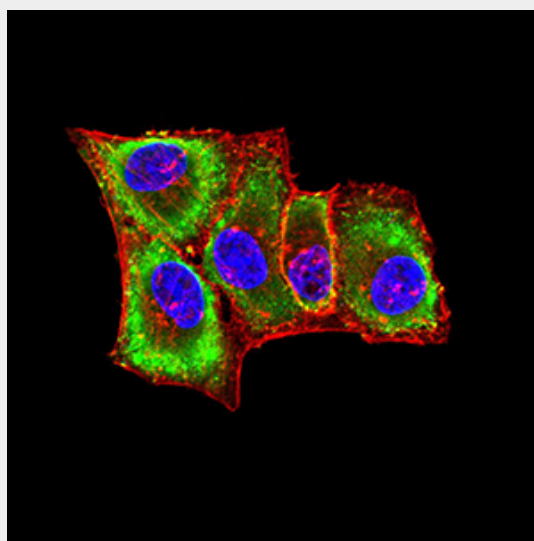


Figure 4:Immunofluorescence analysis of HeLa cells using PLXNA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

PLXNA1 - References

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