

Plexin D1 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2433a**Specification**

Plexin D1 Antibody (internal region) - Product Information

Application	IF, FC, Pep-ELISA
Primary Accession	Q9Y4D7
Other Accession	NP_055918.2 , 23129
Reactivity	Human, Mouse
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	212007

Plexin D1 Antibody (internal region) - Additional Information**Gene ID** 23129**Other Names**

Plexin-D1, PLXND1, KIAA0620

Dilution

IF~~1:50~200

FC~~1:10~50

Pep-ELISA~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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

Plexin D1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Plexin D1 Antibody (internal region) - Protein Information**Name** PLXND1**Synonyms** KIAA0620**Function**

Cell surface receptor for SEMA4A and for class 3 semaphorins, such as SEMA3A, SEMA3C and SEMA3E. Plays an important role in cell-cell signaling, and in regulating the migration of a wide spectrum of cell types. Regulates the migration of thymocytes in the medulla. Regulates endothelial cell migration. Plays an important role in ensuring the specificity of synapse formation. Required for normal development of the heart and vasculature (By similarity). Mediates anti-angiogenic signaling in response to SEMA3E.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q3UH93}; Single-pass membrane protein {ECO:0000250|UniProtKB:Q3UH93}. Cell projection, lamellipodium membrane

Tissue Location

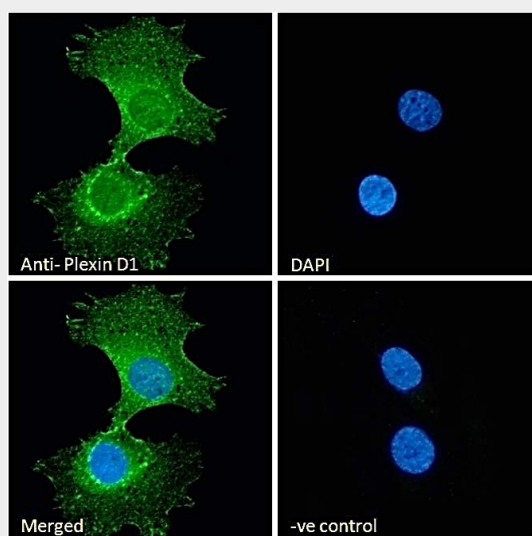
Detected at low levels in heart, placenta, lung, skeletal muscle, kidney, thymus and liver. Detected at very low levels in brain, colon, spleen, small intestine and peripheral blood leukocytes.

Plexin D1 Antibody (internal region) - Protocols

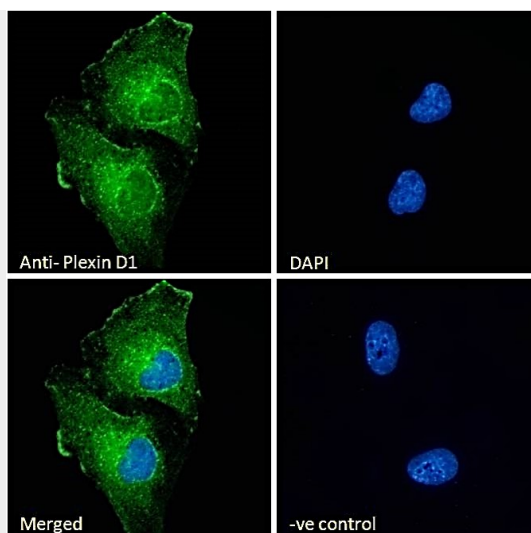
Provided below are standard protocols that you may find useful for product applications.

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

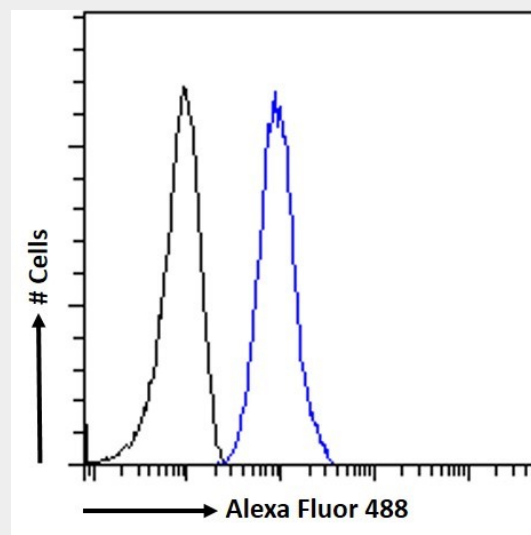
Plexin D1 Antibody (internal region) - Images



EB06660 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear st



EB06660 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear sta



EB06660 Flow cytometric analysis of paraformaldehyde fixed K562 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol

Plexin D1 Antibody (internal region) - References

Semaphorin 3E and plexin-D1 control vascular pattern independently of neuropilins. Gu C, Yoshida Y, Livet J, Reimert DV, Mann F, Merte J, Henderson CE, Jessell TM, Kolodkin AL, Ginty DD. Science. 2005 Jan 14;307(5707):265-8. Epub 2004 Nov 18. PMID: 15550623