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Roundabout 4 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5099a

Specification

Roundabout 4 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q8WZ75
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**107457**
Antigen Region	**236-264**

Roundabout 4 Antibody (N-term) - Additional Information

Gene ID 54538

Other Names
Roundabout homolog 4, Magic roundabout, ROBO4

Target/Specificity
This Roundabout 4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-264 amino acids from the N-terminal region of human Roundabout 4.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Roundabout 4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Roundabout 4 Antibody (N-term) - Protein Information

Name ROBO4

Function Receptor for Slit proteins, at least for SLIT2, and seems to be involved in angiogenesis

and vascular patterning. May mediate the inhibition of primary endothelial cell migration by Slit proteins (By similarity). Involved in the maintenance of endothelial barrier organization and function (PubMed:30455415).

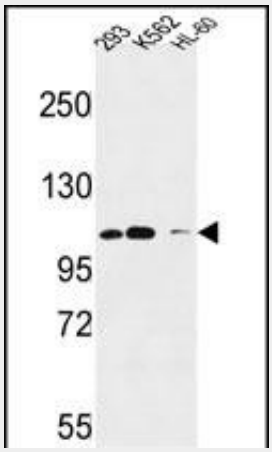
Tissue Location
Specifically expressed in endothelial cells. Expressed in endothelial and intimal cells of the ascending aorta (PubMed:30455415).

Roundabout 4 Antibody (N-term) - Protocols

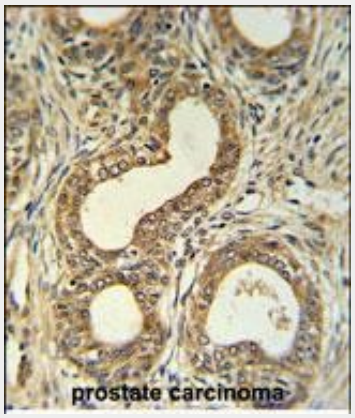
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Roundabout 4 Antibody (N-term) - Images

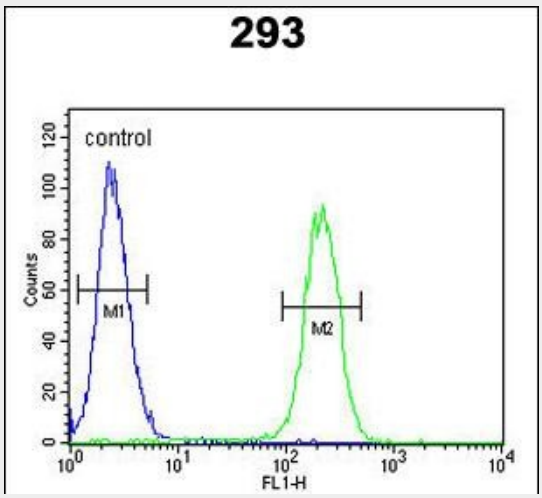


Roundabout 4 Antibody (N-term) (Cat. #AP5099a) western blot analysis in 293,K562,HL-60 cell line lysates (35ug/lane).This demonstrates the Roundabout4 antibody detected the Roundabout4 protein (arrow).



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Roundabout 4 Antibody (N-term) (Cat. #AP5099a) IHC analysis in formalin fixed and paraffin embedded prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Roundabout 4 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Roundabout 4 Antibody (N-term) (Cat. #AP5099a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Roundabout 4 Antibody (N-term) - Background

Roundabout 4 is receptor for Slit proteins, at least for SLIT2, and seems to be involved in angiogenesis and vascular patterning. This protein may mediate the inhibition of primary endothelial cell migration by Slit proteins.

Roundabout 4 Antibody (N-term) - References

Jones, C.A., et al. Nat. Cell Biol. 11(11):1325-1331(2009)
Sheldon, H., et al. FASEB J. 23(2):513-522(2009)
Huang, L., et al. Mol. Vis. 15, 1057-1069 (2009)