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ROBO3 (internal) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF2481a

Specification

ROBO3 (internal) Antibody (internal region) - Product Information

Application	**FC, E**
Primary Accession	Q96MS0
Other Accession	NP_071765.2, 64221
Reactivity	**Human**
Predicted	**Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**148209**

ROBO3 (internal) Antibody (internal region) - Additional Information

Gene ID 64221

Other Names
Roundabout homolog 3, Roundabout-like protein 3, ROBO3

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
ROBO3 (internal) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ROBO3 (internal) Antibody (internal region) - Protein Information

Name ROBO3 (HGNC:13433)

Function
Receptor involved in axon guidance during development (PubMed:15105459). Acts as a multifunctional regulator of pathfinding that simultaneously mediates NELL2 repulsion, inhibits SLIT repulsion, and facilitates Netrin-1/NTN1 attraction. In spinal cord development plays a role in guiding commissural axons probably by preventing premature sensitivity to Slit proteins thus inhibiting Slit signaling through ROBO1/ROBO2. Binding OF NELL2 to the receptor ROBO3 promotes oligomerization of ROBO3, resulting in the repulsion of commissural axons in the

midline. ROBO3 also indirectly boosts axon attraction to NTN1 without interacting with NTN1 itself (By similarity).

Cellular Location
Membrane {ECO:0000250|UniProtKB:Q9Z2I4}; Single- pass type I membrane protein

ROBO3 (internal) 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 Cytomety
- Cell Culture

ROBO3 (internal) Antibody (internal region) - Images

ROBO3 (internal) Antibody (internal region) - References

Mutations in a human ROBO gene disrupt hindbrain axon pathway crossing and morphogenesis. Jen JC, Chan WM, Bosley TM, Wan J, Carr JR, Rub U, Shattuck D, Salamon G, Kudo LC, Ou J, Lin DD, Salih MA, Kansu T, Al Dhalaan H, Al Zayed Z, MacDonald DB, Stigsby B, Plaitakis A, Dretakis EK, Gottlob I, Pieh C, Traboulsi EI, Wang Q, Wang L, Andrews C, Ya Science. 2004 Jun 4;304(5676):1509-13. Epub 2004 Apr 22. PMID: 15105459