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**Research Use Only. Not
for diagnostic or
therapeutic use.**

Storage: Aliquot and store at
-20°C. Minimize freezing and
thawing.

Related Products
EB07058

Product: EB07464 – Goat anti-Robo1 / DUTT1 (mouse) antibody

*This product is one of a range of **Investigative Grade** antibodies, made against targets that have limited or no commercial antibodies available to them and for which there are no data on the expression of the protein in the range of common cell lines and tissues available to us. These antibodies are affinity purified using their peptide immunogen and are known to give low background staining in a western blot (see Application Notes below). However no additional claims are made for their ability to recognise native protein in any application.*

Target Protein

Principal Names: Robo1; roundabout homolog 1 (Drosophila) ; AW494633;
AW742721; DUTT1 ; roundabout homolog 1

Official Gene Symbol: Robo1

Accession Number(s): NP_062286.2

Human Gene ID(s):

Non-Human GeneID(s): 19876 (mouse); 58946 (rat);

This antibody may cross-react with human.

Immunogen

Peptide with sequence C-QKARPAKKQKHQ, from the internal region of the protein sequence according to NP_062286.2

Purification

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied as 100 µg of purified antibody. 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128,000. Western Blot: Preliminary experiments gave bands at approx 80kDa and 40kDa in lysates of Mouse Brain and Rat Brain after 0.03µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size of 176kDa according to NP_062286.1. Both detected bands were successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands). We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

Species Reactivity

Tested:

Expected from sequence similarity: Mouse, Rat, Dog

Background Reference

Andrews W, Liapi A, Plachez C, Camurri L, Zhang J, Mori S, Murakami F, Parnavelas JG, Sundaresan V, Richards LJ.

Robo1 regulates the development of major axon tracts and interneuron migration in the forebrain.

Development. 2006 Jun;133(11):2243-52.

PMID: 16690755

