

AP07917PU-N**Polyclonal Antibody to ROBO1 (1632-1644) - Aff - Purified****Alternate names:**

DUTT1, Deleted in U Twenty Twenty, ROBO-1, Roundabout homolog 1

Quantity:

50 µg

Concentration:

1 mg/ml

Background:

ROBO-1 (also called Roundabout homolog 1 precursor and Deleted in U twenty twenty (DUTT)) functions as a receptor for SLIT1 and SLIT2. The SLIT proteins are thought to act as a molecular guidance cue in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development. In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex. ROBO-1 may also be required for lung development. ROBO-1 is a type I membrane protein. ROBO-1 is a widely expressed protein with the exception of the kidney. Defects in ROBO1 may be a cause of breast and lung cancer. ROBO-1 maps within a region of overlapping homozygous deletions characterized in both small cell lung cancer cell lines (SCLC) and in a breast cancer cell line. Multiple splice variants have been identified for this protein.

Uniprot ID:[Q9Y6N7](#)**NCBI:**[NP_002932.1](#)**GeneID:**[6091](#)**Host:**

Rabbit

Immunogen:

Synthetic peptide corresponding to Amino acids 1632-1644 of Human ROBO-1.

Format:**State:** Liquid purified IgG fraction.**Purification:** Immunoaffinity Chromatography.**Buffer System:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% (w/v) Sodium Azide as preservative.**Applications:****ELISA:** 1/30000 - 1/160000.**Immunocytochemistry.****Immunofluorescence.****Immunohistochemistry on Paraffin Sections:** 2.5 µg/ml.**Western Blot:** 1/500 - 1/3000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody recognises Roundabout (ROBO1).

Species: Human.

Other species not tested.

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures:

Figure 1. Staining ROBO1 in Brain by Immunohistochemistry using Formalin-Fixed Paraffin-Embedded (FFPE) tissue.

