

HUMAN ROBO1 PROTEIN, HFC TAG

Cat.#: 11714

Product Name: Human ROBO1 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: Deleted in U twenty twenty;H-Robo-1

Target: ROBO1

UNIPROT ID: Q9Y6N7

Description: Recombinant human ROBO1 protein with C-terminal human Fc tag

Background: Bilateral symmetric nervous systems have special midline structures that establish a partition between the two mirror image halves. Some axons project toward and across the midline in response to long-range chemoattractants emanating from the midline. The product of this gene is a member of the immunoglobulin gene superfamily and encodes an integral membrane protein that functions in axon guidance and neuronal precursor cell migration. This receptor is activated by SLIT-family proteins, resulting in a repulsive effect on glioma cell guidance in the developing brain. A related gene is located at an adjacent region on chromosome 3. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 121.8 kDa after removal of the signal peptide. The apparent molecular mass of ROBO1-hFc is approximately 100-130 kDa due to glycosylation.

Molecular Characterization: ROBO1(Gln26-Pro897) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

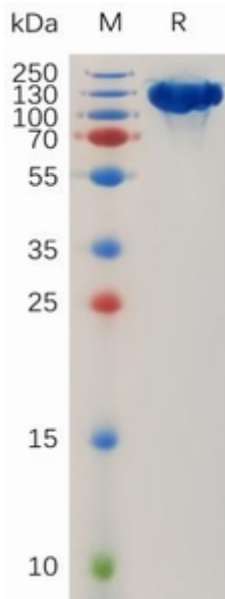


Figure 1. Human ROBO1 Protein, hFc Tag on SDS-PAGE under reducing condition.