



Recombinant Protein Technical Manual

Recombinant Human ROBO2 Protein (His Tag)

RPES4524

Product Data:

Product SKU: RPES4524

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: Q9HCK4

Protein Information:

Molecular Mass: 94.2 kDa

AP Molecular Mass: 116 kDa

Tag: C-His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: KIAA1568;ROBO2;SAX3

Immunogen Information:

Sequence: Met 1-Pro859

Background:

ROBO2 belongs to the ROBO family. Members of the ROBO family are a group of highly conserved transmembrane glycoproteins that make up a small subgroup of the immunoglobulin (Ig) superfamily. They are best known for their roles as receptors for the Slit family of repellent axon guidance cues. In structure, ROBOs are characterized by five C2-type Ig-like repeats, three fibronectin type III domains, a transmembrane region, and an intracellular domain with three (ROBO3) or four (ROBO1, 2) CC (conserved cytoplasmic) motifs. ROBO2 is a receptor for SLIT2, and probably SLIT1, which are thought to act as 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. ROBO2 also abrogates SLIT-ROBO signaling in vitro.