

ROBO2 Protein, Human (HEK293, His)

Cat. No.:	HY-P74595
Synonyms:	Roundabout homolog 2; ROBO2; KIAA1568
Species:	Human
Source:	HEK293
Accession:	Q9HCK4 (S22-P859)
Gene ID:	6092
Molecular Weight:	Approximately 100-120 kDa

PROPERTIES

AA Sequence

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S R L R Q E D F P P   R I V E H P S D V I   V S K G E P T T L N   C K A E G R P T P T
I E W Y K D G E R V   E T D K D D P R S H   R M L L P S G S L F   F L R I V H G R R S
K P D E G S Y V C V   A R N Y L G E A V S   R N A S L E V A L L   R D D F R Q N P T D
V V V A A G E P A I   L E C Q P P R G H P   E P T I Y W K K D K   V R I D D K E E R I
S I R G G K L M I S   N T R K S D A G M Y   T C V G T N M V G E   R D S D P A E L T V
F E R P T F L R R P   I N Q V V L E E E A   V E F R C Q V Q G D   P Q P T V R W K K D
D A D L P R G R Y D   I K D D Y T L R I K   K T M S T D E G T Y   M C I A E N R V G K
M E A S A T L T V R   A P P Q F V V R P R   D Q I V A Q G R T V   T F P C E T K G N P
Q P A V F W Q K E G   S Q N L L F P N Q P   Q Q P N S R C S V S   P T G D L T I T N I
Q R S D A G Y Y I C   Q A L T V A G S I L   A K A Q L E V T D V   L T D R P P P I I L
Q G P A N Q T L A V   D G T A L L K C K A   T G D P L P V I S W   L K E G F T F P G R
D P R A T I Q E Q G   T L Q I K N L R I S   D T G T Y T C V A T   S S S G E T S W S A
V L D V T E S G A T   I S K N Y D L S D L   P G P P S K P Q V T   D V T K N S V T L S
W Q P G T P G T L P   A S A Y I I E A F S   Q S V S N S W Q T V   A N H V K T T L Y T
V R G L R P N T I Y   L F M V R A I N P Q   G L S D P S P M S D   P V R T Q D I S P P
A Q G V D H R Q V Q   K E L G D V L V R L   H N P V V L T P T T   V Q V T W T V D R Q
P Q F I Q G Y R V M   Y R Q T S G L Q A T   S S W Q N L D A K V   P T E R S A V L V N
L K K G V T Y E I K   V R P Y F N E F Q G   M D S E S K T V R T   T E E A P S A P P Q
S V T V L T V G S Y   N S T S I S V S W D   P P P P D H Q N G I   I Q E Y K I W C L G
N E T R F H I N K T   V D A A I R S V I I   G G L F P G I Q Y R   V E V A A S T S A G
V G V K S E P Q P I   I I G R R N E V V I   T E N N N S I T E Q   I T D V V K Q P

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Biological Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse Slit-3 at 1 µg/mL (100 µL/well) can bind biotinylated Human ROBO2. The K_d for this effect is 8.983 nM.

Appearance

Lyophilized powder

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The ROBO2 Protein functions as a receptor for SLIT2, and likely SLIT1, serving as a molecular guidance cue in cellular migration, particularly in axonal navigation at the ventral midline of the neural tube and the projection of axons to various regions during neuronal development. Its interaction with SLIT2 underscores its role in mediating responses to these molecular cues, suggesting a crucial involvement in guiding cellular movements and axonal patterning.

Caution: Product has not been fully validated for medical applications. For research use only.

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