RAB1B Protein, Human (HEK293, Fc)

Cat. No.:	HY-P75993
Synonyms:	Ras-related protein Rab-1B; RAB1B
Species:	Human
Source:	HEK293
Accession:	Q9H0U4 (M1-G199)
Gene ID:	81876
Molecular Weight:	Approximately 58 kDa

PROPERTIES

AA Sequence	MNPEYDYLFK LLLIGDSGVG KSCLLLRFAD DTYTESYIST IGVDFKIRTI ELDGKTIKLQ IWDTAGQERF RTITSSYYRG AHGIIVVYDV TDQESYANVK QWLQEIDRYA SENVNKLLVG NKSDLTTKKV VDNTTAKEFA DSLGIPFLET SAKNATNVEQ AFMTMAAEIK KRMGPGAASG GERPNLKIDS TPVKPAGGG
Biological Activity	Measured in a cell proliferation assay using A549 cells. The ED_{50} for this effect is 3.355 ng/mL, corresponding to a specific activity is 2.98×10^5 units/mg.
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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 small GTPase Rab1B is a crucial regulator of intracellular membrane trafficking, orchestrating various stages from the formation of transport vesicles to their fusion with membranes. Operating through a cycle between an inactive GDP-bound form and an active GTP-bound form, Rab1B plays a pivotal role in recruiting downstream effectors responsible for vesicle processes, including formation, movement, tethering, and fusion. Notably, Rab1B contributes to the early stages of

	autophagic vacuole development, particularly at specialized regions of the endoplasmic reticulum. Additionally, it is involved in regulating vesicular transport between the endoplasmic reticulum and successive Golgi compartments, influencing the compacted morphology of the Golgi and facilitating the recruitment of lipid phosphatase MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA