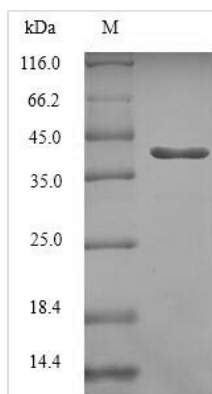




Recombinant Human Ras-related protein Rab-5C (RAB5C)

Product Code	CSB-EP019215HU
Relevance	Protein transport. Probably involved in vesicular traffic .
Abbreviation	Recombinant Human RAB5C protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P51148
Alias	L1880RAB5L
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAGRGGGAARPNNGPAAGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEYQES TIGAAFLTQTVCLDDTTVKFEIWDTAGQERYHSLAPMYRGAQAIVVYDITNT DTFARAKNWWKELQRQASPNIVIALAGNKADLASKRAVEFQEAQAYADDNSLL FMETSAKTAMNVNEIFMAIAKKLPKNPQNATGAPGRNRGVLDLQENNPASRS QCCSN
Research Area	Signal Transduction
Source	E.coli
Target Names	RAB5C
Protein Names	Recommended name: Ras-related protein Rab-5C Alternative name(s): L1880 RAB5L
Expression Region	1-216aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	39.5kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 1-216 constitute the expression domain of recombinant Human RAB5C. The theoretical molecular weight of the RAB5C protein is 39.5 kDa. Expression of this RAB5C protein is conducted in e.coli. The RAB5C coding gene included the N-terminal 6xHis-SUMO tag, which simplifies the detection and purification processes of the recombinant RAB5C protein in following stages of expression and purification.

Ras-related protein Rab-5C (RAB5C) belongs to the Rab family of small GTPases that play crucial roles in regulating intracellular vesicle trafficking and membrane fusion events. Specifically, RAB5C is associated with the early endosomal compartment and is involved in controlling endocytosis, vesicle fusion, and membrane trafficking. The main function of RAB5C is to regulate the dynamics of early endosomes, which are essential for the sorting and processing of internalized cargo. It facilitates the fusion of early endosomes with other vesicles and organelles, contributing to the coordination of cellular transport processes. Research areas related to RAB5C often focus on understanding its role in endocytic pathways, intracellular signaling, and membrane trafficking events. Investigating the molecular mechanisms underlying RAB5C function provides insights into fundamental cellular processes and may have implications for various physiological and pathological conditions, including the regulation of receptor internalization, signal transduction, and membrane homeostasis.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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