

# Recombinant Full Length Human RAB7A Protein, His-tagged

Cat. No. RAB7A-194H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human RAB7A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-207 a.a.
<b>Description</b>	RAB family members are small, RAS-related GTP-binding proteins that are important regulators of vesicular transport. Each RAB protein targets multiple proteins that act in exocytic / endocytic pathways. This gene encodes a RAB family member that regulates vesicle traffic in the late endosomes and also from late endosomes to lysosomes. This encoded protein is also involved in the cellular vacuolation of the VacA cytotoxin of Helicobacter pylori. Mutations at highly conserved amino acid residues in this gene have caused some forms of Charcot-Marie-Tooth (CMT) type 2 neuropathies.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 100mM NaCl
<b>Molecular Mass</b>	25.6 kDa (227aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSSLVPRGSHQSLGVAFYRG ADCCVLVFDV TAPNTFKTLD SWRDEFLIQA SPRDPENFPF VVLGNKIDLE NRQVATKRAQ AWCYSKNNIP

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YFETSAKEAINVEQAFQTIA RNALKQETEV ELYNEFPEPI KLDKNDRACA  
 SAESCSC MTSRKKVLLK VIILGDSGVG KTSLMNQYVN KKFSNQYKAT  
 IGADFLTKEV MVDDRLVTMQ IWDTAGQERF

**Purity** > 90% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [RAB7A RAB7A, member RAS oncogene family \[ Homo sapiens \(human\) \]](#)

**Official Symbol** RAB7A

**Synonyms** RAB7A; RAB7A, member RAS oncogene family; RAB7; PRO2706; ras-related protein Rab-7a; RAB7, member RAS oncogene family; Ras-associated protein RAB7

**Gene ID** [7879](#)

**mRNA Refseq** [NM\\_004637](#)

**Protein Refseq** [NP\\_004628](#)

**MIM** [602298](#)

**UniProt ID** P51149

**Chromosome Location** 3q21.3

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<b>Pathway</b>	Adaptive Immune System; Immune System; Salmonella infection
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<b>Function</b>	GDP binding; GTP binding; GTPase activity; Rac GTPase binding
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