abcam

Product datasheet

Recombinant human Ret + PRKAR1A protein ab204148

2 Images

Description

Product name	Recombinant human Ret + PRKAR1A protein
Biological activity	Specific activity is 280 nmol/min/mg.
Purity	> 85 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P10644 P07949
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Amino Acid Sequence 1	
Species	Human
Sequence	MESGSTAASEEARSLRECELYVQKHNIQALLKDSIVQLCT ARPERPMAFL REYFERLEKEEAKQIQNLQKAGTRTDSREDEISPPPPNPV VKGRRRRGAI SAEVYTEEDAASYVRKVIPKDYKTMAALAKAIEKNVLFSHL DDNERSDIF DAMFSVSFIAGETVIQQGDEGDNFYVIDQGETDVYVNNEW ATSVGEGGSF GELALIYGTPRAATVKAKTNVKLWGIDRDSYRRILM EDPKWEFPRKNLVLGKTLGEGEFGKVVKATAFHLKGRAG YTTVAVKML KENASPSELRDLLSEFNVLKQVNHPHVIKLYGACSQDGPL LLIVEYAKYG SLRGFLRESRKVGPGYLGSGGSRNSSSLDHPDERALTMG DLISFAWQISQ GMQYLAEMKLVHRDLAARNILVAEGRKMKISDFGLSRDVY EEDSYVKRSQ GRIPVKWMAIESLFDHIYTTQSDVWSFGVLLWEIVTLGGNP YPGIPPERL FNLLKTGHRMERPDNCSEEMYRLMLQCWKQEPDKRPVF

ADISKDLEKMMV
KRRDYLDLAASTPSDSLIYDDGLSEEETPLVDCNNAPLPR
ALPSTWIENK LYGRISHAFTRF

Predicted molecular weight	105 kDa including tags
Amino acids	1 to 236
Tags	GST tag N-Terminus
Amino Acid Sequence 2	
Species	Human
Amino acids	713 to 1114

Specifications

Our **Abpromise guarantee** covers the use of **ab204148** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Liquid

Preparation and Storage

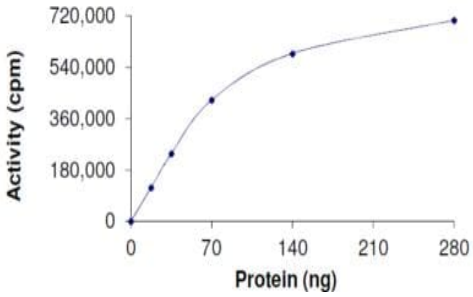
Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.79% Tris HCl, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, 0.002% PMSF, 0.004% DTT, 0.307% Glutathione, 0.003% EDTA This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Relevance	Receptor tyrosine-protein kinase involved in numerous cellular mechanisms including cell proliferation, neuronal navigation, cell migration, and cell differentiation upon binding with glial cell derived neurotrophic factor family ligands. Phosphorylates PTK2/FAK1. Regulates both cell death/survival balance and positional information. Required for the molecular mechanisms orchestration during intestine organogenesis; involved in the development of enteric nervous system and renal organogenesis during embryonic life, and promotes the formation of Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue. Modulates cell adhesion via its cleavage by caspase in sympathetic neurons and mediates cell migration in an integrin (e.g. ITGB1 and ITGB3)-dependent manner. Involved in the development of the neural crest. Active in the absence of ligand, triggering apoptosis through a mechanism that requires receptor intracellular caspase cleavage. Acts as a dependence receptor; in the presence of the ligand GDNF in somatotrophs (within pituitary), promotes survival and down regulates growth hormone (GH) production, but triggers apoptosis in absence of GDNF. Regulates nociceptor survival and size. Triggers the differentiation of rapidly adapting (RA) mechanoreceptors. Mediator of several diseases such as neuroendocrine cancers; these diseases are characterized by aberrant integrins-regulated cell migration. RET: Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells.

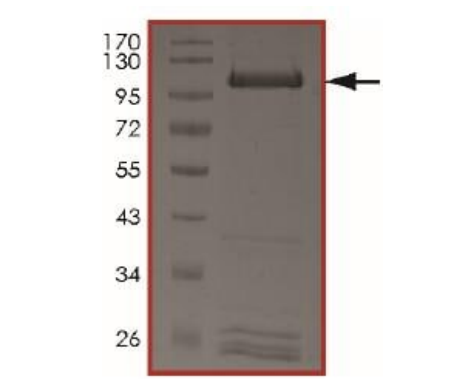
Cellular localization Cell Membrane

Images



Functional Studies - Recombinant human Ret + PRKAR1A protein (ab204148)

Sample Kinase Activity Plot. ab204148 specific activity was determined to be 280 nmol/min/mg.



SDS-PAGE - Recombinant human Ret + PRKAR1A protein (ab204148)

SDS-PAGE analysis of ab204148. MW 105 KDa.

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