abcam

Product datasheet

Recombinant human Cripto1 protein (Fc Chimera) ab84062

3 Images

Overview

Product name	Recombinant human Cripto1 protein (Fc Chimera)
Protein length	Protein fragment

Description

Nature	Recombinant
Source	HEK 293 cells

Amino Acid Sequence

Accession	P13385
Species	Human
Sequence	Theoretical sequence: LGHQEFARPSRGYLAFRDDSIWPQEEPAIRPRSSQRVPP MGIQHSKEL NRTCCLNGGTCMLGSFCACPPSFYGRNCEHDVRKENCGS VPHDTWLPK KCSLCKCWHGQLRCFPQAFLPGCDGLVMDEHLVASRTPE LPPSGSSNT KVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPK DTLMISRTP EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY NSTYRVVSV LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPR EPQVYTLPP SRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYK TTPPVLDSD GSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKS LSLSPGK
Amino acids	31 to 169
Additional sequence information	Encodes the signal peptide and extracellular domain of human Cripto-1 (aa 1-169) was fused to the Fc region of human IgG1 (aa 90-330). The chimeric protein was expressed in modified human 293 cells.

Specifications

Our Abpromise guarantee covers the use of **ab84062** in the following tested applications.

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

Biological activity	200 ng/ml of this Chimera induces ERK1 and ERK2 phosphorylation in human umbilical vein endothelial (HUVEC) cells.
Applications	SDS-PAGE
Purity	> 95 % SDS-PAGE.
Form	Lyophilised
Additional notes	200 ng/ml of this Chimera induces ERK1 and ERK2 phosphorylation in human umbilical vein endothelial (HUVEC) cells.

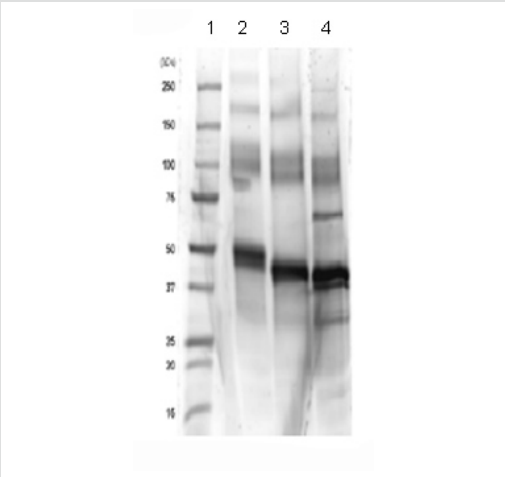
Preparation and Storage

Stability and Storage	Shipped at 4°C. After reconstitution store at -20ºC. Avoid freeze / thaw cycles. Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

General Info

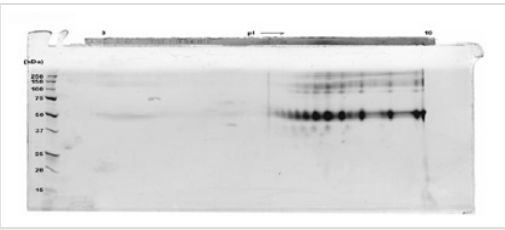
Function	Could play a role in the determination of the epiblastic cells that subsequently give rise to the mesoderm.
Tissue specificity	Preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts.
Sequence similarities	Contains 1 EGF-like domain.
Cellular localization	Cell membrane.

Images



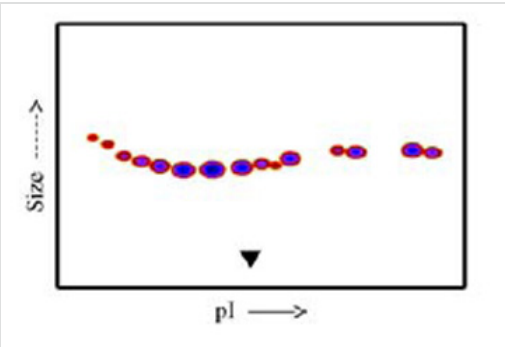
SDS-PAGE - Cripto1 protein (Fc Chimera Active) (ab84062)

Lane 1 – MW markers; Lane 2 – ab84062; Lane 3 – ab84062 treated with PNGase F to remove potential N linked glycans; Lane 4 – ab84062 treated with a glycosidase cocktail to remove potential N- and O-linked glycans. Approximately 5 µg of protein was loaded per lane; Gel was stained using Coomassie.
Drop in MW after treatment with PNGase F indicates the presence of N-linked glycans. A further drop in MW after treatment with the glycosidase cocktail indicates the presence of O-linked glycans. Additional bands in lane 3 and lane 4 are glycosidase enzymes.



SDS-PAGE - Cripto1 protein (Fc Chimera Active) (ab84062)

A sample of ab84062 without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4 20% Tris-HCl 2D gel. Approximately 40 µg of protein was loaded; Gel was stained using Deep Purple™.
The spot train indicates the presence of multiple glycoforms. Spots within the spot train were cut from the gel and identified as Cripto1 (Fc Chimera) by protein mass fingerprinting.



Functional Studies - Cripto1 protein (Fc Chimera Active) (ab84062)

Post-translational modifications result in protein heterogeneity. The densitometry scan demonstrates the purified human cell expressed protein exists in multiple glycoforms, which differ according to their level of post-translational modification.
The triangle indicates theoretical pI and MW of the protein.

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