

Product datasheet

Recombinant Human IRGM protein (denatured) ab137153

[1 Image](#)

Description

Product name	Recombinant Human IRGM protein (denatured)
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>A1A4Y4</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMKETLKIVSRTPVNITMAGD SGNGMSTFIS ALRNTGHEGKASPTELVKATQRCASYFSSHFSNVVLWD LPGTGSATTTL ENYLMEMQFNRYDFIMVASAQFSMNHVMLAKTAEDMGKK FYVWTKLDMD LSTGALPEVQLLQIRENVLENLQKERVCEY
Predicted molecular weight	20 kDa including tags
Amino acids	23 to 181
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab137153** in the following tested applications.

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

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 12.01% Urea, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine)

General Info

Function

Putative GTPase which is required for clearance of acute protozoan and bacterial infections. Functions in innate immune response probably through regulation of autophagy. May regulate proinflammatory cytokine production and prevent endotoxemia upon infection. May also play a role in macrophages adhesion and motility.

Tissue specificity

Widely expressed (at protein level). Expressed in several tissues including colon, small bowel and peripheral blood leukocytes.

Involvement in disease

Defects in IRGM are the cause of susceptibility to inflammatory bowel disease type 19 (IBD19) [MIM:612278]. A chronic, relapsing inflammation of the gastrointestinal tract with a complex etiology. It is subdivided into Crohn disease and ulcerative colitis phenotypes. Crohn disease may affect any part of the gastrointestinal tract from the mouth to the anus, but most frequently it involves the terminal ileum and colon. Bowel inflammation is transmural and discontinuous; it may contain granulomas or be associated with intestinal or perianal fistulas. In contrast, in ulcerative colitis, the inflammation is continuous and limited to rectal and colonic mucosal layers; fistulas and granulomas are not observed. Both diseases include extraintestinal inflammation of the skin, eyes, or joints.

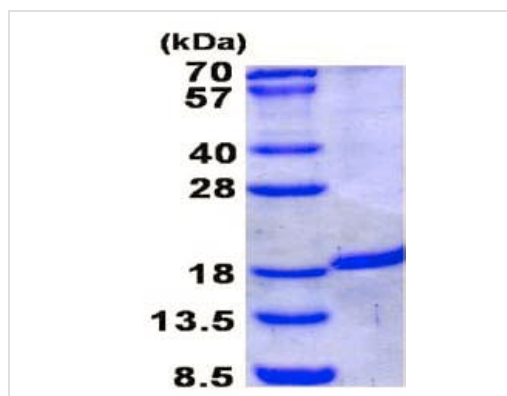
Sequence similarities

Belongs to the interferon-inducible GTPase family.

Cellular localization

Golgi apparatus membrane. Cell membrane. Cytoplasmic vesicle > phagosome membrane. Cytoplasmic vesicle > autophagosome membrane. Cell projection > phagocytic cup. Behaves like an integral membrane protein (By similarity). Recruited to the plasma membrane around forming phagocytic cups, it remains associated with maturing autophagosomes (By similarity). Preferentially associated with cis- and medial-Golgi.

Images



15% SDS-PAGE analysis of 3 µg ab137153.

SDS-PAGE - Recombinant Human IRGM protein
(denatured) (ab137153)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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