

Product datasheet

Recombinant human IL-23R protein (Fc Chimera) ab214161

Description

Product name	Recombinant human IL-23R protein (Fc Chimera)	
Biological activity	Measured by its binding ability in a functional ELISA.	
Purity	≥ 98 % SDS-PAGE.	
Endotoxin level	< 0.060 Eu/μg	
Expression system	CHO cells	
Accession	Q5VWK5	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	GITNINCSGHMWVEPATIFKMGMNISYQAAIKNCQPRKLHF YKNGIKE RFQITRINKTTARLWYKNFLEPHASMYCTAECPKHFQETLI CGKDISSGY PPDIPDEVTCVIYEYSGNMTCTWNAGKLTIDTKYVHVKS LETEEEQY LTSSYINISTDSLQGGKKYLVWVQAANALGMEESKQLQIHL DDIVPSAA VISRAETINATVPKTIWDSQTTIEKVSCEMRYKATTNQTW NVKEFDTN FTYVQQSEFYLEPNIKYVFQVRCQETGKRYWQPWSSLFF HKTPETVPQVT SKAFQHDTWNSGLTVASISTGHLTSDNRGD	
Predicted molecular weight	38 kDa	
Amino acids	24 to 353	
Additional sequence information	Fused to the N-terminus of the Fc region of Human IgG1 (NP_653302.2).	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab214161** 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 Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle. Constituent: 100% PBS Lyophilized from 0.2µm filtered solution. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute with 100 µl sterile water. Add 1X PBS to the desired protein concentration.

General Info

Function	Associates with IL12RB1 to form the interleukin-23 receptor. Binds IL23 and mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade. IL23 functions in innate and adaptive immunity and may participate in acute response to infection in peripheral tissues. IL23 may be responsible for autoimmune inflammatory diseases and be important for tumorigenesis.
Tissue specificity	Expressed by monocytes, Th1, Th0, NK and dendritic cells. Isoform 1 is specifically expressed in NK cells.
Involvement in disease	Genetic variations in IL23R are associated with inflammatory bowel disease type 17 (IBD17) [MIM:612261]. IBD17 is 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. Genetic variations in IL23R are a cause of susceptibility to psoriasis type 7 (PSORS7) [MIM:605606]. Psoriasis is a common, chronic inflammatory disease of the skin with multifactorial etiology. It is characterized by red, scaly plaques usually found on the scalp, elbows and knees. These lesions are caused by abnormal keratinocyte proliferation and infiltration of inflammatory cells into the dermis and epidermis.
Sequence similarities	Belongs to the type I cytokine receptor family. Type 2 subfamily. Contains 2 fibronectin type-III domains.
Post-translational modifications	Phosphorylated in response to IL23.
Cellular localization	Cell membrane.

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