

Product datasheet

Recombinant human IL-4 protein (Active) ab222347

[1 References](#) [1 Image](#)

Description

Product name	Recombinant human IL-4 protein (Active)	
Biological activity	Measured in a cell proliferation assay using TF1 human erythroleukemic cells. The ED ₅₀ for this effect is less or equal to 0.6 ng/ml.	
Purity	> 95 % SDS-PAGE. ab222347 was purified by conventional chromatography techniques.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	Escherichia coli	
Accession	P05112	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MHKCDITLQEIIKTLNSLTEQKTLCTELVTDIFAASKNTT EKETFCAA TVLRQFYSHHEKDTRCLGATAQQFHRHKQLIRFLKRLD RNLWGLAGLNSC PVKEANQSTLENFLERLKTIMREKYSKCSS	
Predicted molecular weight	15 kDa	
Amino acids	25 to 153	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab222347** 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 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: 7.40

Constituents: PBS, 10% Glycerol

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.

Involvement in disease

Genetic variations in IL4 may be a cause of susceptibility to ischemic stroke (ISCHSTR) [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.

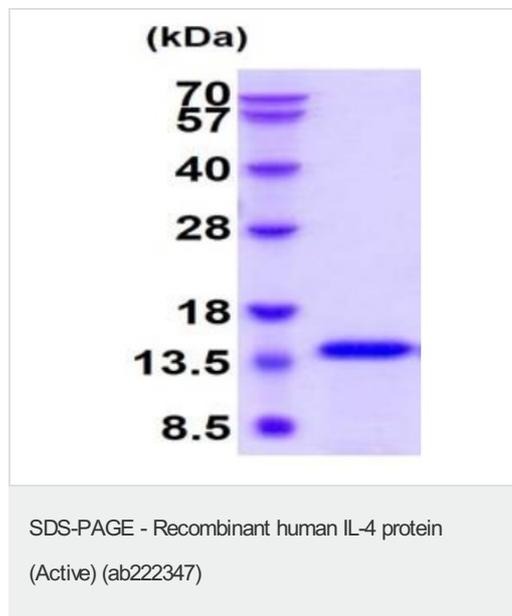
Sequence similarities

Belongs to the IL-4/IL-13 family.

Cellular localization

Secreted.

Images



SDS-PAGE - Recombinant mouse IL4 protein (ab222347 at 3 µg)

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

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