

Product datasheet

Recombinant mouse ITK/EMT protein ab196118

2 Images

Description

Product name	Recombinant mouse ITK/EMT protein	
Biological activity	Specific Activity: 2.4 pmol/min/μg	
	Enzyme reaction was conducted at 30°C for 1 hour with 2 μM Tyr Peptide in 50 mM HEPES pH 7.5, 0.01% BRJ-35, 10 mM MgCl ₂ , 1 mM EGTA. After the 1 hour incubation, diluted development reagent was added.	
Purity	≥ 62 % SDS-PAGE.	
Expression system	Baculovirus infected Sf9 cells	
Accession	NM_010583	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Mouse	
Sequence	YGKWWIQPSELTFVQEIGSGQFGLVHLGYWLNKDKVAI KTIQEGAMSEED FIEEAEVMMKLSHPKLVQLYGVLCLEQAPICLVFEFMEH GCLSDYLRQRG LFAAETLLGMCLDVCEGMAYLEKACVIHRDLAARNCL VGENQVIKVSDFG MTRFVLDDQYTSSTGTFKFPVKWASPEVFSFSRYSSKS DVWSFGVLMWEVF SEGKIPYENRSNSEVVEDISTGFRLYKPRLASCHVYQIM NHCWKEKPEDRPPFSQLLSQLAEIAEAGL	
Predicted molecular weight	57 kDa including tags	
Amino acids	352 to 619	
Tags	GST tag N-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab196118** 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	Liquid
Additional notes	Previously labelled as ITK.

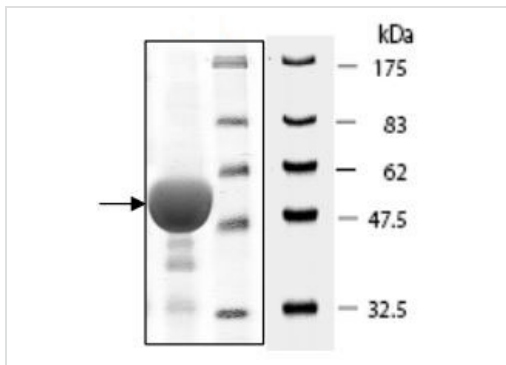
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8 Constituents: 0.4% Tris HCl, 0.58% Sodium chloride, 0.05% Tween, 0.05% DTT, 10% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

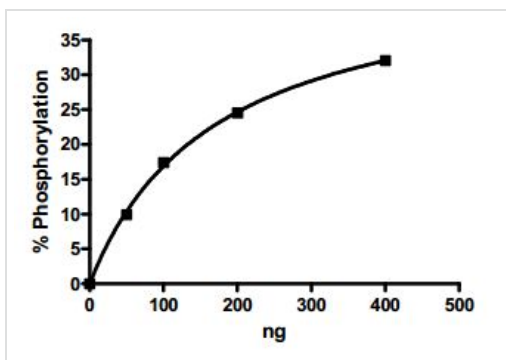
Function	Plays a role in T-cell proliferation and differentiation.
Tissue specificity	T-cell lines and natural killer cell lines.
Involvement in disease	Defects in ITK are the cause of lymphoproliferative syndrome EBV-associated autosomal type 1 (LPSA1) [MIM:613011]. LPSA1 is a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus (EBV). Inadequate immune response to EBV can have a fatal outcome. Clinical features include splenomegaly, lymphadenopathy, anemia, thrombocytopenia, pancytopenia, recurrent infections. There is an increased risk for lymphoma.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily. Contains 1 Btk-type zinc finger. Contains 1 PH domain. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.
Cellular localization	Cell membrane. Localizes to cell surface receptors in the plasma membrane after stimulation with respective receptors (TCR, CD28, CD2) in T-cells.

Images



SDS-PAGE - Recombinant mouse ITK/EMT protein (ab196118)

10% SDS-PAGE analysis of 20 µg ab196118 followed by Coomassie staining.



Functional Studies - Recombinant mouse ITK/EMT protein (ab196118)

% Phosphorylation was calculated based on the emission ratio of 445nm/520nm after excitation at 400nm.

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

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