

For Research Use Only

ITK Monoclonal antibody

Catalog Number: 67703-1-Ig



Basic Information

Catalog Number: 67703-1-Ig	GenBank Accession Number: BC109077	Purification Method: Protein A purification
Size: 150ul , Concentration: 1624 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3702	CloneNo.: 1F9D8
Source: Mouse	Full Name: IL2-inducible T-cell kinase	Recommended Dilutions: WB 1:2000-1:10000 IF 1:200-1:800
Isotype: IgG2a	Calculated MW: 620 aa, 72 kDa	
Immunogen Catalog Number: AG17087	Observed MW: 70 kDa	

Applications

Tested Applications: FC, IF, WB, ELISA	Positive Controls:
Species Specificity: Human	WB : Jurkat cells, PBMC cells IF : Jurkat cells,

Background Information

ITK is a member of Tec family (BTK, ITK, Tec, BMX and RLK), which expressed in normal T-lymphocytes and T-cell associated hematopoietic malignancies and have confirmed its critical role in regulating T lymphocyte function in EBV-driven lymphoproliferative disease and immune-mediated disorders. Tec kinase family members shares similarities structure, consisting of PH domain, SH3 domain, SH2 domain and kinase domain. Loss of function mutations in ITK results in hypogammaglobulinemia and CD4+ T cell loss in humans, and the patients often present with EBV-associated B cell lymphoproliferative syndrome (PMID: 30814910, PMID: 31025232).

Storage

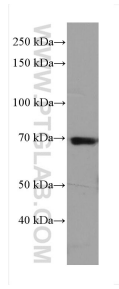
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

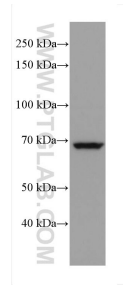
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

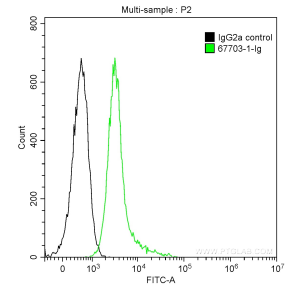
Selected Validation Data



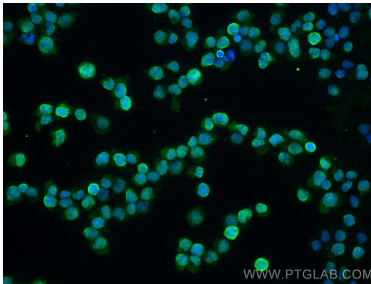
PBMC cells were subjected to SDS PAGE followed by western blot with 67703-1-Ig (ITK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Jurkat cells were subjected to SDS PAGE followed by western blot with 67703-1-Ig (ITK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1X10⁶ Jurkat cells were intracellularly stained with 0.2 ug Anti-Human ITK (67703-1-Ig, Clone: 1F9D8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) (black). Cells were fixed with 90% MeOH.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using ITK antibody (67703-1-Ig, Clone: 1F9D8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).