

# ITK Monoclonal antibody

Catalog Number: 67703-1-Ig

## Basic Information

Catalog Number:

67703-1-Ig

Size:

1624 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG17087

GenBank Accession Number:

BC109077

GeneID (NCBI):

3702

UNIPROT ID:

Q08881

Full Name:

IL2-inducible T-cell kinase

Calculated MW:

620 aa, 72 kDa

Observed MW:

70 kDa

Purification Method:

Protein A purification

CloneNo.:

1F9D8

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human

Positive Controls:

WB : Jurkat cells, PBMC cells

IF/ICC : 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:

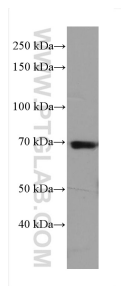
Store at -20°C.

Storage Buffer:

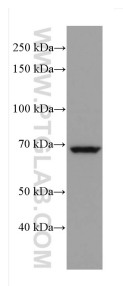
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

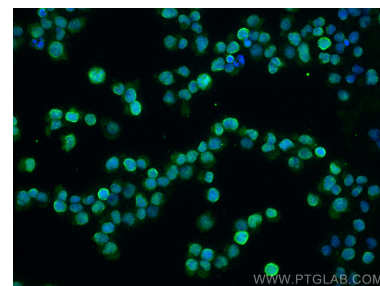
## Selected Validation Data



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.



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).