

For Research Use Only

# PIAS4 Polyclonal antibody

Catalog Number: 14242-1-AP

Featured Product

9 Publications



## Basic Information

Catalog Number:

14242-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5498

GenBank Accession Number:

BC029874

GeneID (NCBI):

51588

UNIPROT ID:

Q8N2W9

Full Name:

protein inhibitor of activated STAT, 4

Calculated MW:

57 kDa

Observed MW:

57-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB : K-562 cells, HL-60 cells, mouse ovary tissue, mouse pancreas tissue

## Background Information

PIAS4 (protein inhibitor of activated STAT protein 4) is also named as PIASG, PIASy and belongs to the PIAS family. It enhanced the conjugation of SUMO2 to GATA2 through its E3 SUMO ligase activity. TGF- $\beta$  can up-regulate PIAS4 expression in MCs to down-regulate  $\alpha$ -SMA gene transcription by the interaction with E12 and PIAS4 predominantly acts as E3 ligases for E12 in MCs among PIAS family members (PMID:22829926). This protein can be sumoylated and Lys-35 is the main site of sumoylation (PMID:15831457).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shouheng Jin	36057605	Nat Commun	WB
Shixiu Liang	36306558	Int Immunopharmacol	WB
Orhi Barroso-Gomila	34795231	Nat Commun	WB, IF

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

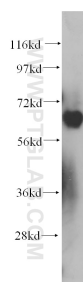
For technical support and original validation data for this product please contact:

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## Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 14242-1-AP (PIAS4 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.