

RecomAb™

## PIAS1/2/3 recombinant monoclonal antibody, clone R04-3J1

Catalog # RAB06469      Size 100 uL

### Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PIAS1/2/3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human PIAS1/2/3.
Theoretical MW (kDa)	Calculated MW: 72 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50-1:100) Immunohistochemistry (1:50-1:100) Immunofluorescence(1:50-1:200) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end use.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol and 0.02% Sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

### Applications

- Western Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry

## Gene Info — PIAS1

Entrez GeneID [8554](#)

Gene Name PIAS1

Gene Alias DDXPB1, GBP, GU/RH-II, MGC141878, MGC141879, ZMIZ3

Gene Description protein inhibitor of activated STAT, 1

Omim ID [603566](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes a member of the mammalian PIAS [protein inhibitor of activated STAT-1 (signal transducer and activator of transcription-1)] family. This member contains a putative zinc-binding motif and a highly acidic region. It inhibits STAT1-mediated gene activation and the DNA binding activity, binds to Gu protein/RNA helicase II/DEAD box polypeptide 21, and interacts with androgen receptor (AR). It functions in testis as a nuclear receptor transcriptional coregulator and may have a role in AR initiation and maintenance of spermatogenesis. [provided by RefSeq]

**Other Designations** AR interacting protein|DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1|protein inhibitor of activated STAT-1|zinc finger, MIZ-type containing 3

## Gene Info — PIAS2

Entrez GeneID [9063](#)

Gene Name PIAS2

Gene Alias MGC102682, MIZ1, PIASX, PIASX-ALPHA, PIASX-BETA, SIZ2, ZMIZ4, miz

Gene Description protein inhibitor of activated STAT, 2

Omim ID [603567](#)

Gene Ontology [Hyperlink](#)

### Gene Summary

This gene encodes a protein involved in the regulation of transcription factors involved in MAP kinase signaling. The symbol MIZ1 has also been associated with ZBTB17 which is a different gene located on chromosome 1. Two alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq]

### Other Designations

Msx-interacting-zinc finger|protein inhibitor of activated STAT X|zinc finger, MIZ-type containing 4

## Gene Info — PIAS3

### Entrez GeneID

[10401](#)

### Gene Name

PIAS3

### Gene Alias

FLJ14651, ZMIZ5

### Gene Description

protein inhibitor of activated STAT, 3

### Omim ID

[605987](#)

### Gene Ontology

[Hyperlink](#)

### Gene Summary

This gene encodes a member of the PIAS [protein inhibitor of activated STAT (signal transducer and activator of transcription)] family of transcriptional modulators. The protein functions as a SUMO (small ubiquitin-like modifier)-E3 ligase which catalyzes the covalent attachment of a SUMO protein to specific target substrates. It directly binds to several transcription factors and either blocks or enhances their activity. Alternatively spliced transcript variants of this gene have been identified, but the full-length nature of some of these variants has not been determined. [provided by RefSeq]

### Other Designations

OTTHUMP00000015586|zinc finger, MIZ-type containing 5

## Pathway

- [Jak-STAT signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)

- [Small cell lung cancer](#)
- [Small cell lung cancer](#)
- [Ubiquitin mediated proteolysis](#)
- [Ubiquitin mediated proteolysis](#)
- [Ubiquitin mediated proteolysis](#)

## Disease

- [Multiple Sclerosis](#)