

For Research Use Only

# TIAR Monoclonal antibody

Catalog Number: 66907-1-Ig **6 Publications**



## Basic Information

<b>Catalog Number:</b> 66907-1-Ig	<b>GenBank Accession Number:</b> BC030025	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 2300 ug/ml by Nanodrop and 940 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7073	<b>CloneNo.:</b> 1E8D12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q01085	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:250-1:1000 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> TIA1 cytotoxic granule-associated RNA binding protein-like 1	
<b>Immunogen Catalog Number:</b> AG11981	<b>Calculated MW:</b> 42 kDa	
	<b>Observed MW:</b> 39 and 41 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : HeLa cells, A549 cells, HSC-T6 cells, RAW 264.7 cells, HepG2 cells, Jurkat cells, K-562 cells, THP-1 cells, NIH/3T3 cells
<b>Cited Applications:</b> WB, IF	<b>IHC :</b> human breast cancer tissue, human ovary tumor tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> MCF-7 cells,
<b>Cited Species:</b> human, mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

TIAR, also named as TIA 1 related protein, is an RNA-binding protein which is associated with apoptosis. It has been shown that mouse with disrupted TIAR gene show high levels of embryonic lethality. TIAR plays an important role in cytoplasm and nucleus where it can control translation of some specific mRNAs and activate splicing of exons with weak 5-splice sites. 66907-1-Ig detects 39 and 41 kDa bands in SDS-PAGE. Besides, TIAR also has the 28 kDa and 50 kDa proteins for TIAR exists in multiple alternative splicing forms.(PMID: 12533540, 7533298, 22851315, 8176212)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuzo Abe	34217360	Cell Biosci	WB
Bolong Yi	34890108	J Cell Mol Med	WB
Danyu Chen	38900944	Cancer Res	IF

## Storage

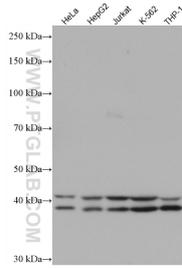
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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.

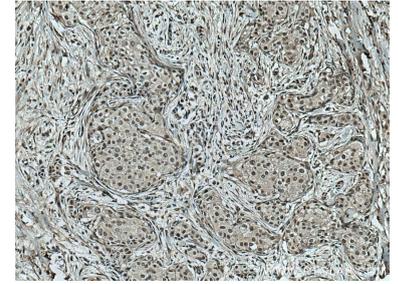
## Selected Validation Data



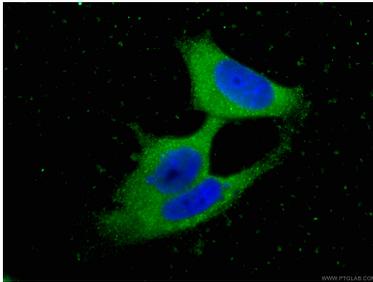
Various lysates were subjected to SDS PAGE followed by western blot with 66907-1-Ig (TIAR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



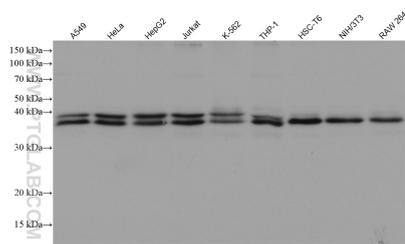
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 66907-1-Ig (TIAR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



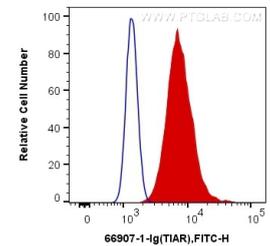
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66907-1-Ig (TIAR antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 66907-1-Ig (TIAR antibody) at dilution of 1:100.



Various lysates were subjected to SDS PAGE followed by western blot with 66907-1-Ig (TIAR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.2 ug Anti-Human TIAR (66907-1-Ig, Clone:1E8D12) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).