

## TIA1 (T-Cell-Restricted Intracellular Antigen-1) Antibody

Mouse Monoclonal Antibody [Clone TIA1/1313]

Catalog No	Format	Size
7072-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7072-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7072-MSM1-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

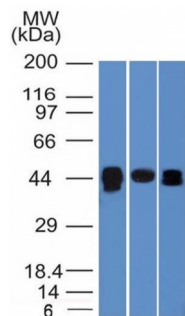
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

### Product Details

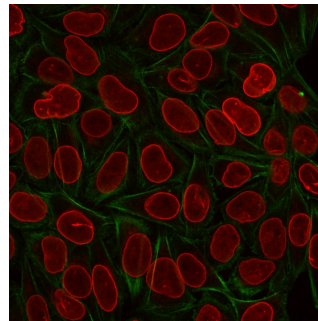
<b>Clone</b>	TIA1/1313
<b>Gene Name</b>	TIA1
<b>Immunogen</b>	Recombinant human TIA1 fragment of 102 amino acid residues (aa279-380)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	40kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus, Stress granule
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	HePG2, PC3 or HeLa cells. Human tonsil.

\*Optimal dilution for a specific application should be determined.

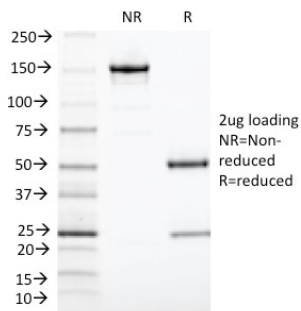
### Product Images for TIA1 (T-Cell-Restricted Intracellular Antigen-1) Antibody



Western Blot of HepG2, PC3 and HeLa cell lysates with TIA1 Monoclonal Antibody (TIA1/1313).



Immunofluorescence Analysis of PFA-fixed HeLa cells using TIA1 Mouse Monoclonal Antibody (TIA1/1313) followed by goat anti-mouse IgG-CF488. Nuclei counterstained with RedDot.



SDS-PAGE Analysis of Purified TIA1 Monoclonal Antibody (TIA1/1313). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

TIA-1 (T-cell intracytoplasmic antigen) is a cytoplasmic granule-associated protein, expressed in lymphocytes processing cytolytic potential. TIA-1 is a member of an RNA-binding protein family and possesses nucleolytic activity against cytotoxic lymphocyte (CTL) target cells. It has been suggested that this protein may be involved in the induction of apoptosis as it preferentially recognizes poly(A) homopolymers and induces DNA fragmentation in CTL targets. The major granule-associated species is a 15kDa protein thought to be derived from the carboxyl terminus of the 40kDa product by proteolytic processing. TIA1 antibody labels cytotoxic T cells and natural killer cells (NK cells). It is also expressed in T-cell lymphoma, large granular lymphocyte (LGL) leukemia and hairy cell leukemia. TIA1 expression in T-cell malignancies may help in differentiating LGL leukemia (high expression) from T-cell lymphocytosis and other T-cell diseases (low expression). TIA1 may also be used to label tumor-infiltrating lymphocytes in the study of immune response to malignancies.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from rabbit anti-serum by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Apoptosis, Autophagy, Nuclear Marker, Signal Transduction