

# Product Datasheet

## TIA1 Antibody (TIA1/1313) - BSA Free NBP2-54406-100ug

Unit Size: 100 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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**NBP2-54406-100ug**

TIA1 Antibody (TIA1/1313) - BSA Free

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	TIA1/1313
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein A purified
Buffer	10 mM PBS
Target Molecular Weight	40 kDa

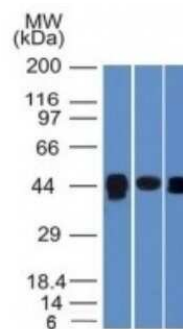
Product Description	
Description	<p>1.0 mg/ml of antibody purified from rabbit anti-serum by Protein A. Prepared in 10mM PBS WITHOUT BSA. Also available at 200 ug/ml WITH BSA &amp; azide (NBP2-53336).</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	7072
Gene Symbol	TIA1
Species	Human
Specificity/Sensitivity	<p>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.</p>
Immunogen	Recombinant human TIA1 fragment of 102 amino acid residues (aa279-380) (Uniprot: P31483)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, CyTOF-ready
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells, Immunocytochemistry/ Immunofluorescence 1 - 2 ug/ml, Flow (Intracellular), CyTOF-ready
Application Notes	Optimal dilution for a specific application should be determined. Western Blot: 1-2ug/ml for 60 minutes at RT.

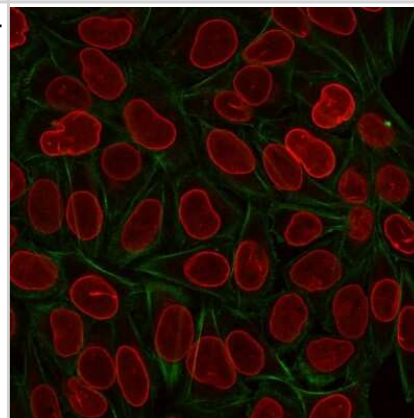


## Images

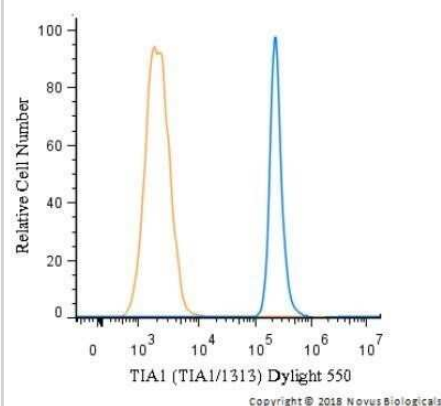
Western Blot: TIA1 Antibody (TIA1/1313) - BSA Free [NBP2-54406] - HepG2, PC3 and HeLa Cell Lysates with TIA1 Monoclonal Antibody (TIA1/1313).



Immunocytochemistry/Immunofluorescence: TIA1 Antibody (TIA1/1313) - BSA Free [NBP2-54406] - 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.



Flow (Intracellular): TIA1 Antibody (TIA1/1313) - BSA Free [NBP2-54406] - An intracellular stain was performed on A549 cells with TIA1 Antibody (TIA1/1313) NBP2-54406R (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Dylight 550. Image using the BSA Free format of this antibody.





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### **Products Related to NBP2-54406-100ug**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
H00007072-P01-10ug	Recombinant Human TIA1 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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