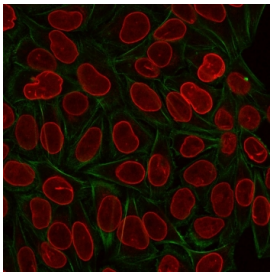
TIA1 Antibody [clone TIA1/1313] (V8438)

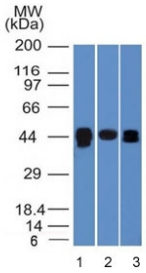
Catalog No.	Formulation	Size
V8438-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8438-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8438SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

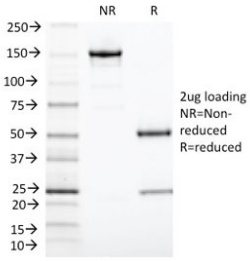
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	TIA1/1313
Purity	Protein G affinity chromatography
UniProt	P31483
Localization	Cytoplasmic
Applications	Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml for 1 hr at RT
Limitations	This TIA1 antibody is available for research use only.



Immunofluorescent staining of PFA-fixed human HeLa cells with TIA1 antibody (green, clone TIA1/1313) and Reddot nuclear stain (red).



Western blot testing of human A) HepG2, B) PC-3 and C) HeLa cell lysate wiht TIA-1 antibody (clone TIA1/1313). The long and short forms differ by 17 amino acids. Predicted molecular weight: ~43 kDa and ~15 kDa (granulocyte-associated isoform).



SDS-PAGE analysis of purified, BSA-free TIA1 antibody (clone TIA1/1313) as confirmation of integrity and purity.

Description

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.

Application Notes

Optimal dilution of the TIA1 antibody should be determined by the researcher.

Immunogen

Amino acids 279-380 from the human protein were used as the immunogen for the TIA1 antibody.

Storage

Store the TIA1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com