

Product Datasheet

TIA-1 Antibody / T-Cell Intracellular Antigen-1 (orb699551)

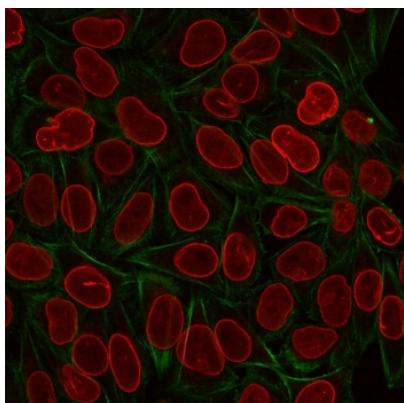
Catalog Number	orb699551
Category	Antibodies
Description	TIA-1 (T-cell intracytoplasmic antigen) is a cytoplasmic granule-associated protein, expressed in lymphocytes processing cytolytic potential. TIA-1 is a member of an RNA-binding protein family and possesses nucleolytic activity against cytotoxic 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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Immunogen	Amino acids 279-380 from the human protein were used as the immunogen for the TIA1 antibody.
UniProt ID	P31483

Tested applications IF, WB

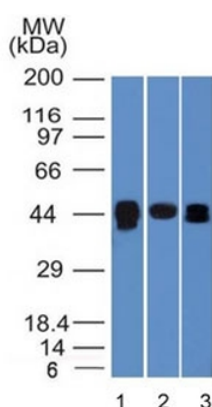
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Dilution range	Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml for 1 hr at RT
Application notes	Optimal dilution of the TIA1 antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	TIA1/1313
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	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 with 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).

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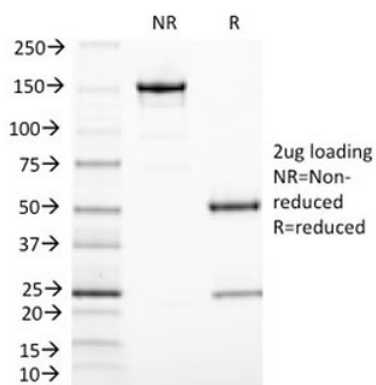
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SDS-PAGE analysis of purified, BSA-free TIA1 antibody (clone TIA1/1313) as confirmation of integrity and purity.

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