

Product Datasheet

TIA-1 Antibody / T-Cell Intracellular Antigen-1 (orb376646)

Catalog Number orb376646

Category Antibodies

Description T-Cell Intracellular Antigen-1 is a cytoplasmic granule-associated protein

expressed in lymphocytes processing cytolytic potential. It 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. TIA-1 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 Human recombinant partial protein (amino acids 279-380) was used as the

immunogen for this TIA-1 antibody.

Tested applications WB

Dilution range Western blot: 1-2ug/ml

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Application notes The concentration stated for each application is a general starting point.

Variations in protocols, secondaries and substrates may require the TIA-1

antibody to be titered up or down for optimal performance.

Antibody Type Primary Antibody

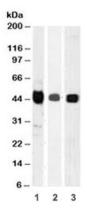
Clone Number TRIA1-1

Formula 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 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



Western blot testing of A) HepG2, B) PC3 and C) HeLa cell lysate wiht TIA-1 antibody (clone TRIA1-1). The long and short forms differ by 17 amino acids. Predicted molecular weight: ~43kDa and ~15kDa (granulocyte-associated isoform).