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## 10-7572: Monoclonal Antibody to TIA-1 (Clone: ABM47E1)

Clonality: Monoclonal ABM47E1 Clone Name: Application: IHC.WB Reactivity: Human Gene: TIA1 7072 Gene ID: **Uniprot ID:** P31483 Format: Purified **Alternative Name:** TIA1

**Isotype:** Mouse IgG1

Immunogen Information: A partial length recombinant TIA-1 protein (amino acids 182-385) was used as the immunogen for

this antibody.

## **Description**

TIA1 (T-cell intracellular antigen) are mRNA-binding proteins that can aggregate within granules under specific stress conditions. TIA-1 is a multi-domain ribonucleic acid (RNA) binding protein that recognizes poly-uridine tract RNA sequences to facilitate 5' splice site recognition by the U1 small nuclear ribonucleoprotein (snRNP). TIA1 mutation causes perturbed RNA splicing and cellular stress resulting in WDM (Welander distal myopathy). TIA-1 regulates developmental and stress-responsive pathways through distinct activities at the levels of alternative pre-mRNA splicing and mRNA translation by recognising uridine-rich sequences of RNAs.

## **Product Info**

**Amount :** 25 μg / 100 μg

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition:

Storage condition:

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Western blot analysis: 2-4 µg/ml; Immunohistochemical analysis: 5-10 µg/ml



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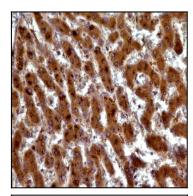


Fig-1: Immunohistochemical analysis of TIA-1 in human Liver carcinoma tissue using TIA-1 antibody (Clone: ABM47E1) at 5  $\mu g/ml$ .

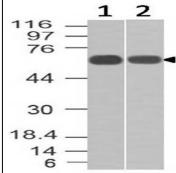


Fig-2: Western blot analysis of TIA-1. Anti-TIA-1 antibody (Clone: ABM47E1) was tested 2  $\mu$ g/ml on (1) DU145 and (2) h Ovary lysates.