

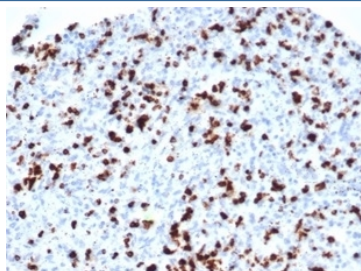
## Recombinant TIA-1 Antibody / T-Cell Intracellular Antigen-1 [clone TIA1/1352R] (V9372)

| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V9372-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9372-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V9372SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

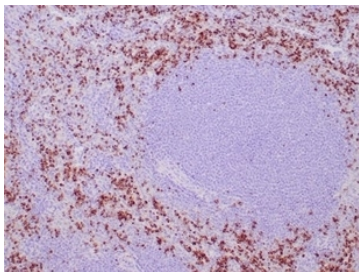
Recombinant **RABBIT MONOCLONAL**

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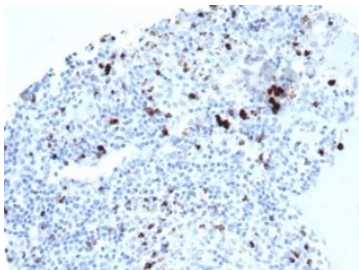
|                    |   |
|--------------------|---|
| Availability       | 1-3 business days   |
| Species Reactivity | Human   |
| Format             | Purified  |
| Clonality          | Recombinant Rabbit Monoclonal                                       |
| Isotype            | Rabbit IgG  |
| Clone Name         | TIA1/1352R  |
| Purity             | Protein A affinity  |
| UniProt            | P31483  |
| Localization       | Cytoplasm, Nucleus  |
| Applications       | Immunohistochemistry (FFPE) : 1-2ug/ml                              |
| Limitations        | This recombinant TIA-1 antibody is available for research use only. |



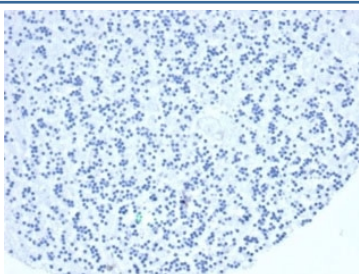
IHC staining of FFPE human lymph node with recombinant TIA-1 antibody (clone TIA1/1352R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human spleen tissue with recombinant TIA-1 antibody (clone TIA/1352R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with recombinant TIA-1 antibody (clone TIA/1352R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Negative control: IHC staining of FFPE human brain tissue with recombinant TIA-1 antibody (clone TIA/1352R) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

## Description

The T cell intracellular antigen 1 (TIA 1) is a 17 kDa cytoplasmic granule associated protein also designated as GMP 17, for granule membrane protein of 17 kDa. The GMP 17/TIA 1 molecule is expressed in cells possessing cytolytic potential and could be involved in the signaling cascade of Fas (CD95) mediated apoptosis. Within hematopoietic cell lines, the TIA1/1352R monoclonal antibody reacts with about 90% of CD16+, 50 60% of CD8+, and less than 10% of CD4+ normal peripheral blood lymphocytes. It reacts with almost all monocytes and granulocytes. This antibody also reacts with CD4+ activated T cell clones, activated NK cell clones, and Con activated thymocytes, but not with B lymphocytes or B cell lines. 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 recombinant TIA-1 antibody should be determined by the researcher.

## Immunogen

Human bone marrow malignant cells from a non B, non T acute leukemia were used as the immunogen for the recombinant TIA-1 antibody.

## Storage

Aliquot the recombinant TIA-1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

