

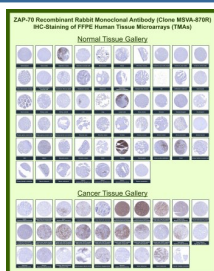
## ZAP70 Antibody for IHC / Lymphoid Tissue Marker Immunohistochemistry Antibody [clone MSVA-870R] (V6132)

Catalog No.	Formulation	Size
V6132-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6132-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Recombinant **RABBIT MONOCLONAL**

[Bulk quote request](#)

<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Recombinant Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clone Name</b>	MSVA-870R
<b>UniProt</b>	P43403
<b>Localization</b>	Cell membrane, Cytoplasm
<b>Applications</b>	Immunohistochemistry (FFPE) : 1:75-1:150
<b>Limitations</b>	This ZAP70/Zeta chain associated protein kinase 70 antibody is available for research use only.



ZAP70 Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of Tyrosine-protein kinase ZAP70 in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using recombinant rabbit monoclonal ZAP70 antibody clone MSVA-870R. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates predominantly cytoplasmic localization in lymphoid cell populations, with strong signal observed in tonsil, thymus, and lymph node, while most non-lymphoid tissues show minimal or absent staining. Within tumor tissue microarrays, positive staining highlights tumor-infiltrating lymphocytes and cells associated with lymphoid malignancies, supporting its role as a lymphoid tissue marker and indicator of immune cell distribution. Evaluation across large TMA panels enables comparative analysis of ZAP70 expression across diverse tissue types under standardized conditions. The observed staining patterns align with reported ZAP70 expression profiles in publicly available datasets including the Human Protein Atlas.

### Description

ZAP70 antibody, also known as Zeta-chain-associated protein kinase 70 antibody, recognizes a cytoplasmic tyrosine

kinase that functions as a key mediator of T-cell receptor signaling and is widely used as a lymphoid tissue marker in immunohistochemistry. ZAP70 Antibody for IHC is specifically developed for detection of this protein in formalin-fixed, paraffin-embedded tissues, enabling detailed evaluation of ZAP70 expression patterns across a broad range of normal and diseased human tissues. ZAP70 is predominantly expressed in T lymphocytes and natural killer cells and is enriched in lymphoid organs such as thymus, spleen, tonsil, and lymph nodes, making it highly suitable for tissue-based immune profiling.

In immunohistochemistry, ZAP70 demonstrates a primarily cytoplasmic staining pattern within lymphoid cells, consistent with its intracellular signaling role. This staining pattern enables clear visualization of lymphocyte-rich regions and supports identification of immune cell populations within complex tissue environments. ZAP70 Antibody for IHC is particularly valuable for assessing tissue architecture, where the distribution and density of lymphoid cells can be evaluated directly within histological sections. Its cytoplasmic signal provides strong contrast against surrounding non-lymphoid tissue, facilitating interpretation of staining results in FFPE specimens.

This ZAP70 Antibody for IHC is uniquely positioned as a tissue-distribution-focused reagent, emphasizing histological localization and immune cell mapping rather than intracellular signaling dynamics or protein quantification. Immunohistochemistry enables direct visualization of ZAP70-positive lymphocytes within intact tissue architecture, allowing researchers to study immune infiltration, compartmentalization, and spatial relationships between immune cells and surrounding tissue structures. This makes it particularly useful for studies examining immune involvement in both normal physiology and disease states.

The recombinant rabbit monoclonal clone MSVA-870R antibody has been validated using tissue microarray (TMA) analysis across a wide panel of normal and cancer tissues, providing a high-throughput assessment of ZAP70 tissue distribution. This TMA-based evaluation demonstrates strong and consistent staining in lymphoid tissues, including tonsil, thymus, and lymph node, while most non-lymphoid tissues show minimal or absent staining. This clear tissue-specific pattern supports the specificity of ZAP70 as a lymphoid marker in immunohistochemistry and highlights its utility for distinguishing immune cell populations within diverse tissue types.

In cancer tissues, ZAP70 staining is frequently observed in tumor-infiltrating lymphocytes, reflecting the presence of immune cells within the tumor microenvironment. This makes ZAP70 Antibody for IHC a valuable tool for evaluating immune infiltration and lymphoid components in tumor samples, supporting studies of tumor-immune interactions and microenvironmental composition. In addition, ZAP70 expression may be detected in lymphoid malignancies, where it can contribute to characterization of disease-associated immune cell populations.

Overall, ZAP70 Antibody for IHC provides a robust and highly specific tool for immunohistochemical detection of lymphoid cells, enabling detailed analysis of tissue distribution, immune cell localization, and tumor-associated immune infiltration. Its validated performance across tissue microarrays and strong staining in lymphoid compartments make it well suited for studies requiring accurate visualization of immune cells in FFPE tissue sections.

This antibody is also part of a broader collection of [IHC antibodies validated by tissue microarray analysis](#), supporting consistent staining across normal and cancer tissues.

## Application Notes

1. Optimal dilution of the ZAP70 Antibody for IHC / Lymphoid Tissue Marker Immunohistochemistry Antibody should be determined by the researcher.
2. This ZAP70/Zeta chain associated protein kinase 70 antibody is recombinantly produced by expression in human HEK293 cells.
3. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to

the manufacturer's directions.

## Immunogen

A recombinant fragment (around amino acids 247-382) of human ZAP70 protein (exact sequence is proprietary) was used as the immunogen for the ZAP70 Antibody for IHC / Lymphoid Tissue Marker Immunohistochemistry Antibody.

## Storage

ZAP70/Zeta chain associated protein kinase 70 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

## Alternate Names

ZAP70 IHC antibody, ZAP70 immunohistochemistry antibody, Zeta-chain-associated protein kinase 70 IHC antibody, ZAP70 lymphoid tissue marker antibody, ZAP70 TMA validated antibody, ZAP70 clone MSVA-870R antibody