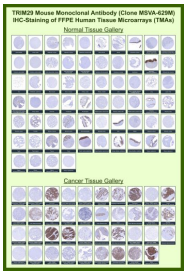
TRIM29 Antibody for IHC / Tripartite motif-containing protein 29 [clone MSVA-629M] (V6077)

Catalog No.	Formulation	Size
V6077-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6077-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MSVA-629M
UniProt	Q14134
Localization	Cytoplasm, Lysosome
Applications	Immunohistochemistry (FFPE) : 1:100-1:200
Limitations	This TRIM29/Tripartite motif-containing protein 29 antibody is available for research use only.



TRIM29 Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of Tripartite motif-containing protein 29 TRIM29 in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using mouse monoclonal antibody clone MSVA-629M. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates predominantly epithelial localization with cytoplasmic and variable nuclear staining, including strong signal in stratified squamous epithelia such as esophagus and tonsil, while most non-epithelial tissues remain largely negative. Within tumor tissue microarrays, TRIM29 expression is observed in multiple epithelial-derived malignancies, consistent with epithelial enrichment and tumor-associated expression patterns. Evaluation across large TMA panels enables direct comparison of TRIM29 expression across diverse tissue types under standardized conditions. The observed staining patterns align with reported TRIM29 expression profiles in the Human Protein Atlas.

Description

Tripartite motif-containing protein 29 is an epithelial-associated TRIM family member encoded by the TRIM29 gene and also known as ATDC. The TRIM29 Antibody for IHC is developed to evaluate tissue-specific expression patterns of this

regulatory protein in formalin-fixed, paraffin-embedded specimens. TRIM29 is located on chromosome 11q23 and encodes a scaffold-like protein characterized by B-box and coiled-coil domains, distinguishing it from many other TRIM proteins that contain canonical RING domains.

In normal tissues, TRIM29 expression is enriched in stratified and glandular epithelial compartments, including skin, esophagus, lung, and pancreas. Immunohistochemical studies have demonstrated predominant cytoplasmic and variable nuclear localization within epithelial cells, often with stronger staining in basal and suprabasal layers of squamous epithelium. This layered expression pattern reflects its role in epithelial differentiation and maintenance of structural integrity.

In oncologic research, TRIM29 expression has been observed in squamous cell carcinomas, pancreatic adenocarcinoma, gastric carcinoma, and other epithelial malignancies. Its expression profile can vary depending on tumor type, with reports describing associations with invasion, cellular stress adaptation, and epithelial remodeling. Because of its epithelial enrichment and context-dependent tumor expression, TRIM29 is frequently evaluated in tissue-based studies examining tumor classification and epithelial lineage biology.

As a tripartite motif family protein, TRIM29 participates in signaling networks that influence chromatin organization and cellular stress response pathways. Investigation of TRIM29 expression by immunohistochemistry supports research focused on epithelial differentiation, tumor-associated remodeling, and spatial distribution of regulatory proteins within tissue architecture. Clone MSVA-629M is a mouse monoclonal antibody developed to detect TRIM29 expression in histologic specimens.

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.

For additional TRIM29 and ATDC research antibodies targeting epithelial differentiation and squamous carcinoma-associated signaling pathways, explore the broader TRIM29 Antibody page featuring recombinant rabbit monoclonal clone TRIM29/9256R.

Application Notes

1. Optimal dilution of the TRIM29 antibody for IHC should be determined by the researcher.

2. This TRIM29/Tripartite motif-containing protein 29 antibody is recombinantly produced by expression in CHO 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 121oC in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37oC for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

A recombinant fragment (126 amino acid residues between amino acids 1-200) of human TRIM29 protein was used as the immunogen for the TRIM29 antibody for IHC.

Storage

TRIM29/Tripartite motif-containing protein 29 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.