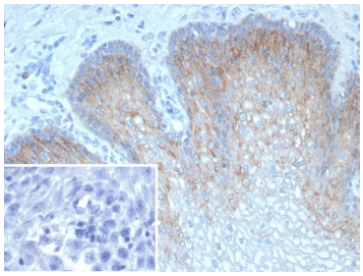
TRIM29 Antibody Recombinant Rabbit MAb / Tripartite motif-containing protein 29 [clone TRIM29/9256R] (V5597)

Catalog No.	Formulation	Size
V5597-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5597-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5597SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

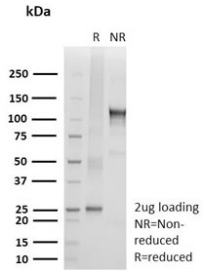
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TRIM29/9256R
Purity	Protein A/G affinity
UniProt	Q14134
Localization	Cytoplasm, Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This TRIM29 antibody is available for research use only.



Immunohistochemistry of TRIM29 Antibody Recombinant Rabbit MAb TRIM29/9256R in human esophagus. Formalin-fixed, paraffin-embedded human esophageal tissue was stained using recombinant rabbit monoclonal clone TRIM29/9256R. HRP-DAB brown chromogenic signal demonstrates cytoplasmic and nuclear staining in squamous epithelial cells, with strongest signal observed in basal and suprabasal layers. The inset shows PBS used in place of primary antibody as a negative control. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling prior to antibody incubation.



SDS-PAGE analysis of purified, BSA-free recombinant TRIM29 antibody (clone TRIM29/9256R) as confirmation of integrity and purity.

Description

Tripartite motif-containing protein 29 is a TRIM family member encoded by the TRIM29 gene and is also widely known as ATDC or ataxia-telangiectasia group D complementing protein. The TRIM29 Antibody Recombinant Rabbit MAb TRIM29/9256R is developed to detect this epithelial-associated regulatory protein in research applications focused on DNA damage response and tumor biology. TRIM29 is located on chromosome 11q23 and differs from many other TRIM proteins in that it lacks a canonical RING domain while retaining B-box and coiled-coil motifs that mediate protein-protein interactions and scaffold functions.

TRIM29 functions as a regulatory adaptor protein and has been implicated in modulation of chromatin organization, transcriptional control, and cellular responses to genotoxic stress. It has been reported to interact with components of the p53 signaling pathway and other regulatory complexes that influence proliferation and apoptosis. Through these mechanisms, TRIM29 contributes to epithelial differentiation, stress signaling, and maintenance of genomic stability. Subcellular localization studies describe both cytoplasmic and nuclear distribution depending on cell type and physiologic context.

Expression of TRIM29 is enriched in epithelial tissues including pancreas, lung, skin, and gastrointestinal tract. In cancer research, altered TRIM29 expression has been observed in pancreatic, gastric, lung, breast, and bladder carcinomas. Its biologic role appears context dependent, with evidence supporting involvement in tumor progression or modulation of stress response pathways depending on tumor type. This tissue-specific behavior underscores its importance in epithelial transformation and oncogenic signaling networks.

As part of the tripartite motif protein family, TRIM29 participates in pathways that regulate protein stability and cellular stress adaptation. Investigation of TRIM29 expression supports research focused on epithelial integrity, DNA damage response mechanisms, and cancer-associated signaling biology. Clone TRIM29/9256R is a recombinant rabbit monoclonal antibody designed for specific detection of TRIM29 protein expression in diverse research settings.

Application Notes

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

Immunogen

A recombinant fragment (within amino acids 1-200) of human TRIM29 protein was used as the immunogen for the TRIM29 antibody recombinant rabbit mAb TRIM29/9256R.

Storage

Aliquot the TRIM29 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.