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36-3826: Monoclonal Antibody to TRIM29 (Lung Squamous Cell Carcinoma Marker)(Clone : MSVA-629M)

Clonality :	Monoclonal
Clone Name :	MSVA-629M
Application :	IHC
Reactivity :	Human
Gene :	TRIM29
Gene ID :	23650
Uniprot ID :	Q14134
Format :	Purified
Alternative Name :	Tripartite motif-containing protein 29, Ataxia telangiectasia group D-associated protein, Ataxia telangiectasia group D complementing gene (ATDC); Tripartite motif-containing protein 29 (TRIM29);
Isotype :	IgG2b / Kappa
Immunogen Information :	Recombinant fragment (126 Amino acid residues between aa 1-200) of human TRIM29 protein

Description

It recognizes a 66kDa protein, which is identified as Tripartite motif-containing protein 29 (TRIM29). It interacts with the intermediate filament protein vimentin, a substrate for the PKC family of protein kinases, and with hPKCI-1, an inhibitor of the PKCs. TRIM29 protein contains both zinc finger and leucine zipper motifs, suggesting that the it may form homodimers and possibly associate with DNA. High expression of TRIM29 has been reported in gastric cancer and pancreatic cancer, and correlates with enhanced tumor growth and lymph node metastasis. TRIM29 is also able to distinguish lung squamous cell carcinoma from lung adenocarcinoma with ~90% positive accuracy, when used in a panel with TTF-1, p63, CK5/6, and Napsin-A antibodies. It plays a crucial role in the regulation of macrophage activation in response to viral or bacterial infections within the respiratory tract. Mechanistically, TRIM29 interacts with IKBKG/NEMO in the lysosome where it induces its 'Lys-48' ubiquitination and subsequent degradation. In turn, the expression of type I interferons and the production of pro-inflammatory cytokines are inhibited. Additionally, induces the 'Lys-48' ubiquitination of STING1 in a similar way, leading to its degradation.

Product Info

Amount :	20ug / 100 µg
Purification :	Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.
Content :	This antibody is available for research use only and is not approved for use in diagnosis.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Application Note

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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Immunohistochemistry (IHC):

1:100-1:200

IHC Protocol

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.

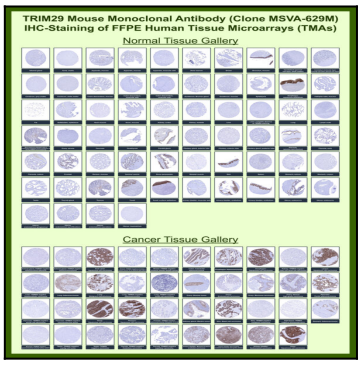

Figure 1: TRIM29 Antibody in Numerous Tissues (IHC) Tripartite motif-containing protein 29 Mouse Monoclonal Antibody (MSVA-629M) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

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