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TRIM29 (Lung Squamous Cell Carcinoma Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone TRIM29/1042]
Catalog # AH11236

Product Information

Application	WB, IF, FC
Primary Accession	Q14134
Other Accession	23650, 504115
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Clone Names	TRIM29/1042
Calculated MW	65835

Additional Information

Gene ID	23650
Other Names	Tripartite motif-containing protein 29, Ataxia telangiectasia group D-associated protein, TRIM29, ATDC
Application Note	WB~~1:1000 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	TRIM29 (Lung Squamous Cell Carcinoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TRIM29
Synonyms	ATDC
Function	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. Cytoplasm. Lysosome. Note=Colocalizes with intermediate filaments

Cellular Location

Tissue Location Expressed in placenta, prostate and thymus.

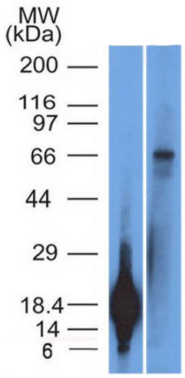
Background

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.

References

Kosaka Y, et al. Tripartite motif-containing 29 (TRIM29) is a novel marker for lymph node metastasis in gastric cancer. Ann Surg Oncol. 14(9): 2543-9. 2007. | Ring BZ, et al. A novel five-antibody immunohistochemical test for sub-classification of lung carcinoma. Mod Pathol. 22(8): 1032-43. 2009

Images



Western Blot of TRIM29 Recombinant protein fragment & A431 Cell Lysate TRIM29 Monoclonal Antibody (TRIM29/1042).