

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

Mouse Monoclonal Antibody [Clone TRIM29/1041]

Catalog # AH11233

Product Information

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| Application | IHC, IF, FC |
| Primary Accession | Q14134 |
| Other Accession | 23650 , 504115 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | Mouse / IgG2a, kappa |
| Clone Names | TRIM29/1041 |
| Calculated MW | 65835 |

Additional Information

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|------------------|--|
| Gene ID | 23650 |
| Other Names | Tripartite motif-containing protein 29, Ataxia telangiectasia group D-associated protein, TRIM29, ATDC |
| Application Note | IHC~~1:100~500 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

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| Name | TRIM29 |
| Synonyms | ATDC |
| Function | <p>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.</p> <p>Cytoplasm. Lysosome. Note=Colocalizes with intermediate filaments</p> |

Cellular Location**Tissue Location**

Expressed in placenta, prostate and thymus.

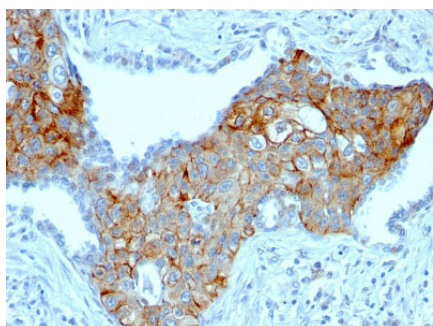
Background

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 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.

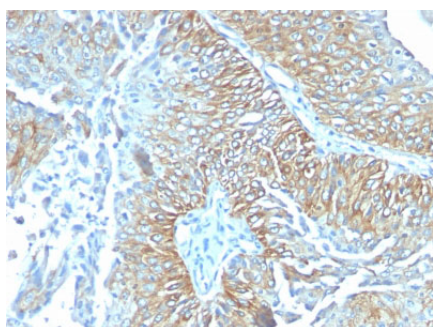
References

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



Formalin-fixed, paraffin-embedded human Lung Squamous Cell Carcinoma stained with TRIM29 Monoclonal Antibody (TRIM29/1041).



Formalin-fixed, paraffin-embedded human Esophageal carcinoma stained with TRIM29 Monoclonal Antibody (TRIM29/1041).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.