

TRIM29/ATDC Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	66	Rabbit	#Q14134	23650

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TRIM29/ATDC Antibody detects endogenous levels of TRIM29/ATDC protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu160 of human TRIM29/ATDC protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Tripartite motif-containing protein 29 (TRIM29, ATDC) was isolated as a candidate gene by its ability to complement the radiosensitivity defect of an ataxia-telangiectasia (AT) cell line (1). This putative transcription regulator belongs to the TRIM (tripartite motif) protein family that is characterized by highly conserved amino-terminal RING finger, B-box, and coiled-coil domains. The TRIM29 protein binds and sequesters cytosolic p53, repressing expression of p53 target genes including p21 and Noxa by preventing p53 from entering the nucleus. Expression of TRIM29 inhibits p53 function and results in increased cell proliferation. (2). TRIM29 enhances tumor growth and metastasis *in vivo* and high TRIM29 levels are seen in most invasive pancreatic cancers. The oncogenic effect of TRIM29 appears to require β-catenin as expression of both proteins is elevated in pancreatic cancer cell lines and tissues (3).

Background References

1. Kapp, L.N. et al. (1992) *Am J Hum Genet* 51, 45-54.
2. Yuan, Z. et al. (2010) *Mol Cell Biol* 30, 3004-15.
3. Wang, L. et al. (2009) *Cancer Cell* 15, 207-19.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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