

For Research Use Only

TBC1D8 Polyclonal antibody

Catalog Number:33583-1-AP



Basic Information

Catalog Number: 33583-1-AP	GenBank Accession Number: NM_001102426	Purification Method: Antigen affinity Purification
Source: Rabbit	GeneID (NCBI): 11138	Recommended Dilutions: WB: 1:500-1:1000 IHC: 1:50-1:500
Isotype: IgG	UNIPROT ID: O95759	
Immunogen Catalog Number: AG35398	Full Name: TBC1 domain family, member 8 (with GRAM domain)	
	Calculated MW: 130kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : A549 cells, Calu-1 cells
Species Specificity: human	IHC : human cervical cancer tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The TBC1D8 protein is a member of the TBC domain family and functions as a GTPase-activating protein (GAP) that negatively regulates the activity of small G proteins of the Rab family, participating in the fine-tuning of intracellular vesicle transport and signal transduction. This protein has garnered significant attention in reproductive and cancer research. Studies have shown that TBC1D8 is a key determinant of oocyte maturation and female fertility, with defects in its expression leading to embryonic development arrest. Moreover, TBC1D8 is abnormally overexpressed in various cancers (such as breast and lung cancer), where it acts as an oncogene by modulating signaling pathways related to cell proliferation, invasion, and metastasis (e.g., the EGFR/Ras pathway). Thus, it serves as a potential biomarker for disease diagnosis and a therapeutic target.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

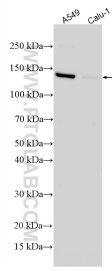
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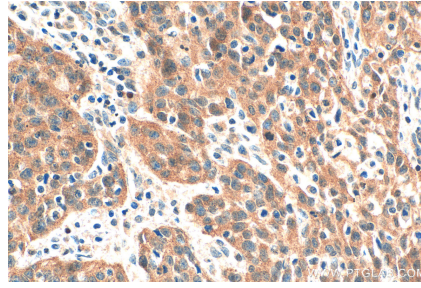
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33583-1-AP (TBC1D8 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 33583-1-AP (TBC1D8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).