

For Research Use Only

KCTD14 Polyclonal antibody

Catalog Number: 21111-1-AP



Basic Information

Catalog Number: 21111-1-AP	GenBank Accession Number: BC001929	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 350 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 65987	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9BQ13	
Isotype: IgG	Full Name: potassium channel tetramerisation domain containing 14	
Immunogen Catalog Number: AG14265	Calculated MW: 225 aa, 26 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : mouse skeletal muscle tissue, mouse brain tissue, mouse small intestine tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human stomach cancer tissue, human intrahepatic cholangiocarcinoma tissue, human ovary cancer tissue

Background Information

KCTD14, or potassium channel tetramerization domain containing 14, is a member of the KCTD family of proteins. This family consists of 25 members in humans, many of which are only partially characterized. KCTD14, like other members of the KCTD family, contains a conserved domain known as the BTB (Broad complex, Tramtrak, and Bric-a-brac)/POZ (poxvirus zinc finger) domain, which is crucial for protein oligomerization and establishing protein-protein interactions. KCTD14 has been implicated in various biological functions, and recent research suggests a potential role in cancer. Although not as extensively studied as some other KCTD members, KCTD14 has been noted in database analyses to potentially play a protumor role in ovarian cancer. Specifically, the COSMIC database reports a copy number variation (CNV) gain in 4.5% of ovarian cancers, and the GENT2 database indicates a fold change (FC) of 1.5 in expression, with a p-value less than 0.001, suggesting a possible association with ovarian cancer.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

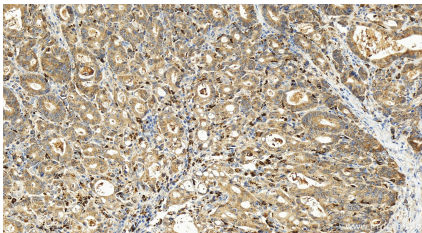
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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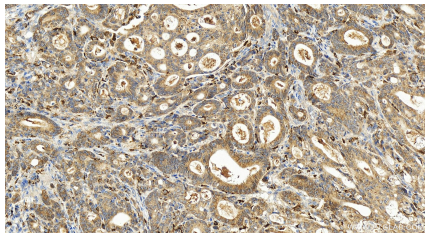
Selected Validation Data



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 21111-1-AP (KCTD14 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 21111-1-AP (KCTD14 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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