

For Research Use Only

ATF7IP Polyclonal antibody

Catalog Number: 14699-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number:

14699-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop and 353 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6341

GenBank Accession Number:

BC063855

GeneID (NCBI):

55729

UNIPROT ID:

Q6VMQ6

Full Name:

activating transcription factor 7 interacting protein

Calculated MW:

137 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:200-1:800

Applications

Tested Applications:

IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

IHC : human ovary tumor tissue, human breast cancer tissue, human stomach 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

ATF7IP (Activating Transcription Factor 7 Interacting Protein), also known as MCAF1 (MBD1-containing chromatin-associated factor 1), is a multifunctional scaffold protein that plays a pivotal role in epigenetic regulation and transcriptional control. Functionally, ATF7IP acts as an adaptor that recruits the histone methyltransferase SETDB1 to specific genomic loci, facilitating the deposition of the heterochromatin mark H3K9me3 and silencing target genes, including retrotransposons such as LINE1. This activity is essential for maintaining genomic stability by suppressing transposable element mobilization and preventing DNA damage.

Notable Publications

Author	Pubmed ID	Journal	Application
Dilber Irmak	30452683	Hum Mol Genet	WB,IF

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

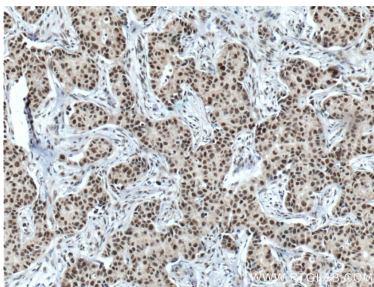
For technical support and original validation data for this product please contact:

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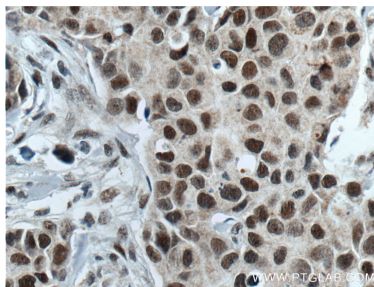
E: proteintech@ptglab.com
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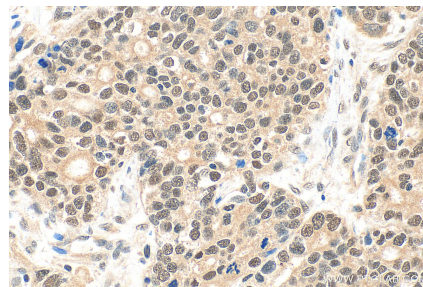
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14699-1-AP (ATF7IP antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14699-1-AP (ATF7IP antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 14699-1-AP (ATF7IP antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).