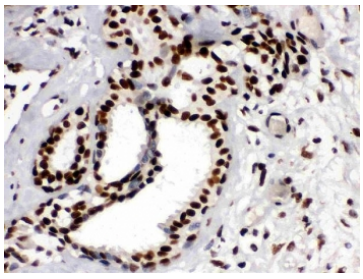
TRIM28 Antibody / KAP1 (R32210)

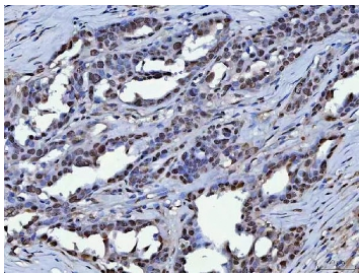
Catalog No.	Formulation	Size
R32210	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

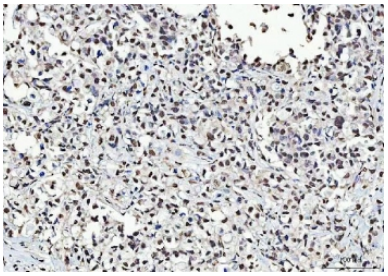
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q13263
Localization	Nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml
Limitations	This TRIM28 antibody is available for research use only.



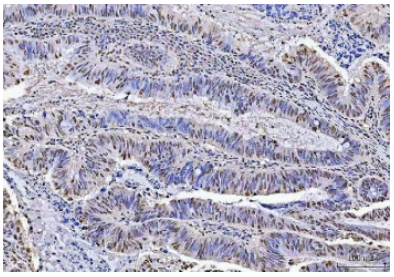
IHC testing of FFPE human breast cancer tissue with TRIM28 antibody. HIER: Boil the paraffin sections in pH8 EDTA buffer for 20 minutes and allow to cool prior to staining.



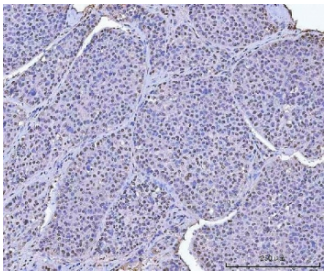
IHC testing of FFPE human ovarian cancer tissue with TRIM28 antibody. HIER: Boil the paraffin sections in pH8 EDTA buffer for 20 minutes and allow to cool prior to staining.



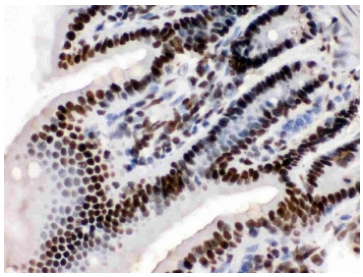
IHC testing of FFPE human gastric carcinoma tissue with TRIM28 antibody. HIER: Boil the paraffin sections in pH8 EDTA buffer for 20 minutes and allow to cool prior to staining.



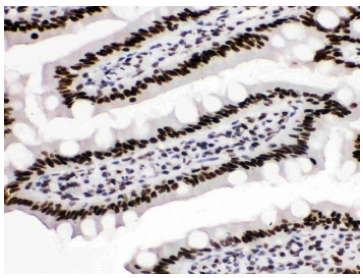
IHC testing of FFPE human colorectal adenocarcinoma tissue with TRIM28 antibody. HIER: Boil the paraffin sections in pH8 EDTA buffer for 20 minutes and allow to cool prior to staining.



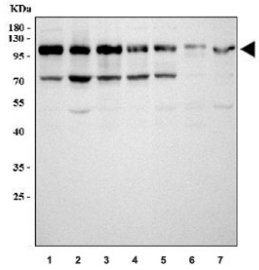
IHC testing of FFPE human liver cancer tissue with TRIM28 antibody. HIER: Boil the paraffin sections in pH8 EDTA buffer for 20 minutes and allow to cool prior to staining.



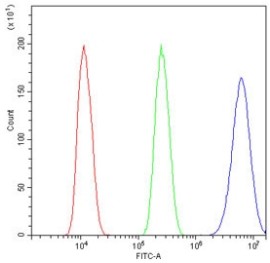
IHC testing of FFPE mouse intestinal tissue with TRIM28 antibody. HIER: Boil the paraffin sections in pH8 EDTA buffer for 20 minutes and allow to cool prior to staining.



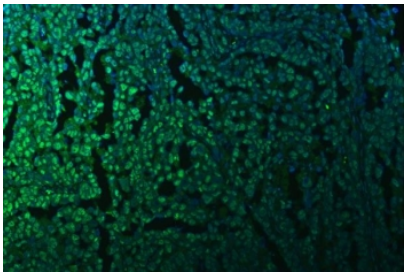
IHC testing of FFPE rat intestinal tissue with TRIM28 antibody. HIER: Boil the paraffin sections in pH8 EDTA buffer for 20 minutes and allow to cool prior to staining.



Western blot testing of 1) human HeLa, 2) human PC-3, 3) human 293T, 4) human A549, 5) rat PC-12, 6) mouse spleen and 7) mouse NIH 3T3 cell lysate with TRIM28 antibody. Observed molecular weight: 88~110 kDa depending on sumoylation.



Flow cytometry testing of human U-2 OS cells with TRIM28 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TRIM28 antibody.



Immunofluorescent staining of FFPE human ovarian cancer tissue with TRIM28 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA for 20 min.

Description

Tripartite motif-containing 28, also known as transcriptional intermediary factor 1b (TIF1b) and KAP1 (KRAB-associated protein-1), is a protein that in humans is encoded by the TRIM28 gene. The protein encoded by this gene mediates transcriptional control by interaction with the Kruppel-associated box repression domain found in many transcription factors. The protein localizes to the nucleus and is thought to associate with specific chromatin regions. KAP1 is a ubiquitously expressed protein involved in many critical functions including: transcriptional regulation, cellular differentiation and proliferation, DNA damage repair, viral suppression, and apoptosis. Its functionality is dependent upon post-translational modifications. Phosphorylation of KAP1 acts as a deactivator of the protein in many of its mechanisms while sumoylation acts as an activator.

Application Notes

Optimal dilution of the TRIM28 antibody should be determined by the researcher.

Immunogen

Amino acids 699-835 of human TRIM28 were used as the immunogen for the TRIM28 antibody.

Storage

After reconstitution, the TRIM28 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (1)

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