

TRIM5 antibody

Product Information

Catalog No.:	FNab08989
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

Capsid-specific restriction factor that prevents infection from non-host-adapted retroviruses. Blocks viral replication early in the life cycle, after viral entry but before reverse transcription. In addition to acting as a capsid-specific restriction factor, also acts as a pattern recognition receptor that activates innate immune signaling in response to the retroviral capsid lattice. Binding to the viral capsid triggers its E3 ubiquitin ligase activity, and in concert with the heterodimeric ubiquitin conjugating enzyme complex UBE2V1-UBE2N(also known as UBC13-UEV1A complex) generates 'Lys-63'-linked polyubiquitin chains, which in turn are catalysts in the autophosphorylation of the MAP3K7/TAK1 complex(includes TAK1, TAB2, and TAB3). Activation of the MAP3K7/TAK1 complex by autophosphorylation results in the induction and expression of NF-kappa-B and MAPK-responsive inflammatory genes, thereby leading to an innate immune response in the infected cell. Restricts infection by N-tropic murine leukemia virus(N-MLV), equine infectious anemia virus(EIAV), simian immunodeficiency virus of macaques(SIVmac), feline immunodeficiency virus(FIV), and bovine immunodeficiency virus(BIV)(PubMed:17156811). Plays a role in regulating autophagy through activation of autophagy regulator BECN1 by causing its dissociation from its inhibitors BCL2 and TAB2(PubMed:25127057). Also plays a role in autophagy by acting as a selective autophagy receptor which recognizes and targets HIV-1 capsid protein p24 for autophagic destruction(PubMed:25127057).

Immunogen information

Immunogen: tripartite motif-containing 5

Synonyms: Tripartite motif-containing protein 5|RING finger protein 88|RING-type E3 ubiquitin transferase TRIM5|TRIM5|RNF88

Observed MW: 70 kDa, 46 kDa

Uniprot ID : Q9C035

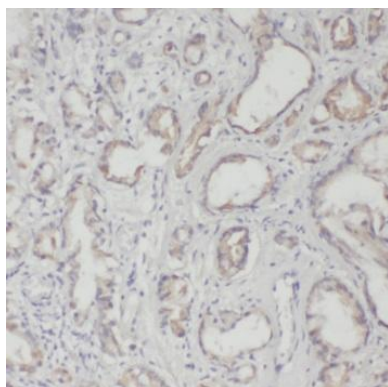
Application

Reactivity: Human, Mouse

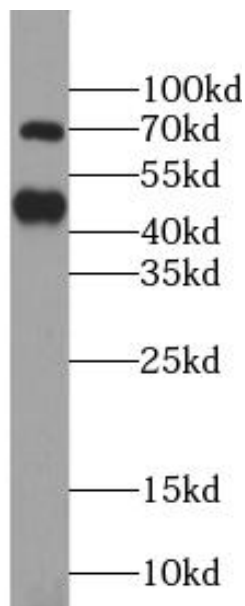
Tested Application: ELISA, IHC, WB

Recommended dilution: WBL:1:200-1:1000; IHC: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded human prostate cancer using FNab08989(TRIM5 antibody) at dilution of 1:50



MKN-45 cells were subjected to SDS PAGE followed by western blot with FNab08989(TRIM5 Antibody) at dilution of 1:300