



TRIM5α Monoclonal Antibody

Catalog No	YP-Ab-03423
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;ELISA
Gene Name	TRIM5
Protein Name	Tripartite motif-containing protein 5
Immunogen	Purified recombinant fragment of human TRIM5α expressed in E. Coli.
Specificity	TRIM5α Monoclonal Antibody detects endogenous levels of TRIM5α protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TRIM5; RNF88; Tripartite motif-containing protein 5; RING finger protein 88
Calculated Molecular Weight	56kD
Cell Pathway	Cytoplasm . Nucleus . Predominantly localizes in cytoplasmic bodies (PubMed:12878161, PubMed:20357094). Localization may be influenced by the coexpression of other TRIM proteins, hence partial nuclear localization is observed in the presence of TRIM22 or TRIM27 (By similarity). In cytoplasmic bodies, colocalizes with proteasomal subunits and SQSTM1 (By similarity). .
Tissue Specificity	Brain,Placenta,Rhabdomyosarcoma,
Function	domain:The RING-type zinc finger domain mediates binding to an E2 ubiquitin-conjugating enzyme.,function:Isoform Alpha is a retrovirus restriction factor, which mediates species-specific, early block to retrovirus infection. Targets retroviral capsid soon after entry into the cell, and prevents reverse transcription of the virus RNA genome. Isoform Alpha trimers may make multiple contacts with the hexameric lattice of CA proteins which constitute the surface of retroviral core, and somehow inactivate the virus. Restricts efficiently infection by N-MLV, but not HIV-1. May have E3 ubiquitin-protein ligase activity.,pathway:Protein modification; protein ubiquitination.,PTM:Ubiquitinates itself in a RING finger- and UBE2D2-dependent manner (in vitro).,similarity:Belongs to the TRIM/RBCC family.,similarity:Contains 1 B box-type zinc finger.,similarity:Contains 1 B30.2/SPRY domain.,similarity



Background

The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. The protein forms homo-oligomers via the coiled-coil region and localizes to cytoplasmic bodies. It appears to function as a E3 ubiquitin-ligase and ubiquitinates itself to regulate its subcellular localization. It may play a role in retroviral restriction. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Dec 2009],

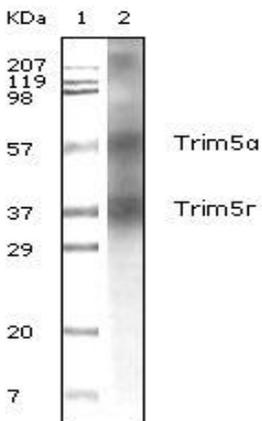
matters needing attention

Avoid repeated freezing and thawing!

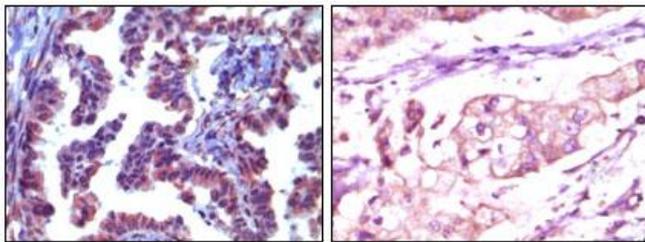
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using TRIM5 α Monoclonal Antibody against human breast carcinoma tissue lysate.



Immunohistochemistry analysis of paraffin-embedded human metastatic adenocarcinoma(A) and stomach adenocarcinoma (B), showing cytoplasmic localization with AEC staining (A) and DAB staining(B) using TRIM5 α Monoclonal Antibody.