

# Immunotag™ TRIM5α Monoclonal Antibody

Antibody Specification	
Catalog No.	ITM0627
Product Description	Immunotag™ TRIM5α Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	TRIM5α
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant fragment of human TRIM5α expressed in E. Coli.
Specificity	TRIM5α Monoclonal Antibody detects endogenous levels of TRIM5α protein.
Purification	Affinity purification
Form	Ascitic fluid containing 0.03% sodium azide.
Gene Name	TRIM5
Accession No.	Q9C035
Alternate Names	TRIM5; RNF88; Tripartite motif-containing protein 5; RING finger protein 88

## Antibody Specification

Description	tripartite motif containing 5(TRIM5) Homo sapiens 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],
Protein Expression	Brain,Placenta,Rhabdomyosarcoma,
Subcellular Localization	cytoplasmic mRNA processing body,intracellular,nucleus,cytoplasm,cytosol,omegasome,
Protein 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:Contains 1 RING-type zinc finger.,subcellular location:Cytoplasmic bodies.,subunit:Isoform Alpha forms homotrimers, and may interact with retroviral CA protein. Isoform Delta interacts with BTBD1 and BTBD2.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.