

For Research Use Only

TRIM54 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83175-2-PBS



Basic Information

Catalog Number: 83175-2-PBS	GenBank Accession Number: BC141807	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 57159	CloneNo.: 230391G5
Source: Rabbit	UNIPROT ID: Q9BYV2	
Isotype: IgG	Full Name: tripartite motif-containing 54	
Immunogen Catalog Number: AG15229	Calculated MW: 358 aa, 40 kDa	
	Observed MW: 40 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

83175-2-PBS targets TRIM54 as part of a matched antibody pair:

MP00236-3: 83175-1-PBS capture and 83175-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

TRIM54 (Tripartite motif-containing protein 54) is also names as MURF, MURF3, RNF30. The expression of TRIM54 is required for skeletal myoblast differentiation and myotube fusion. It is expressed in heart and skeletal muscle specifically (PMID:11243782). It has two isoforms with the molecular weight of 40KDa and 45KDa. It can be dimerized and hetero-dimerized to form homooligomer and heterooligomer (PMID:15967462).

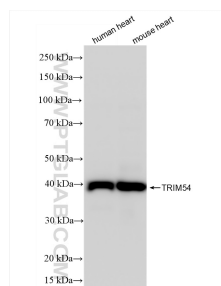
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

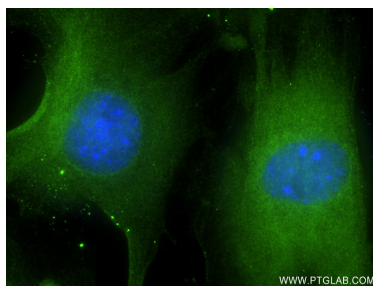
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

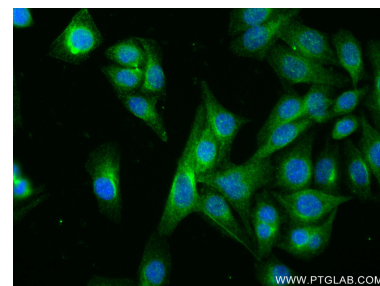
Selected Validation Data



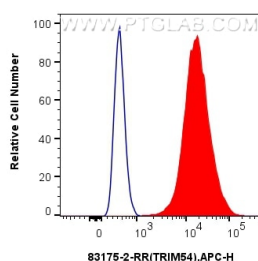
Various lysates were subjected to SDS PAGE followed by western blot with 83175-2-RR (TRIM54 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83175-2-PBS in a different storage buffer formulation.



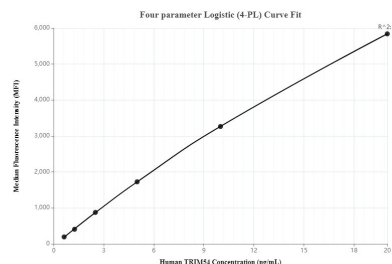
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using TRIM54 antibody (83175-2-RR, Clone: 230391G5) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83175-2-PBS in a different storage buffer formulation.



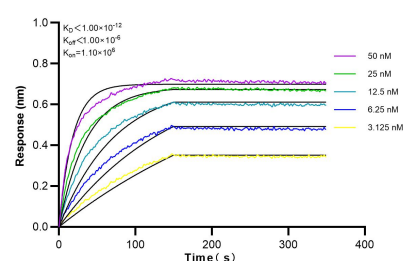
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TRIM54 antibody (83175-2-RR, Clone: 230391G5) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83175-2-PBS in a different storage buffer formulation.



1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug Trim54 Recombinant Antibody (83175-2-RR, Clone:230391G5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83175-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00236-3, TRIM54 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83175-1-PBS. Detection antibody: 83175-2-PBS. Standard: Ag15229. Range: 0.625-20 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 83175-2-RR against Human TRIM54 were performed. The affinity constant is below 1 pM.