ALPL Recombinant Rabbit Monoclonal Antibody (7H11L3)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	7H11L3
Conjugate	Unconjugated
Immunogen	Protein corresponding to human ALPL [aa222-aa335]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2722857

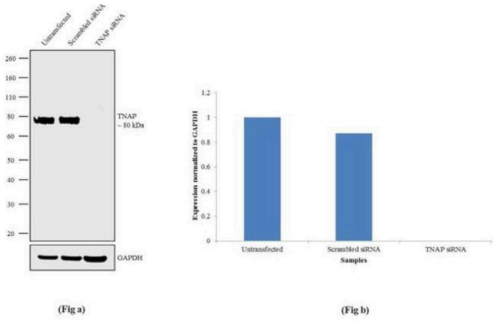
Applications	Tested Dilution	Publications
Western Blot (WB)	2.5 µg/mL	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

This antibody is predicted to react with Monkey, Cat, Bovine, Rat

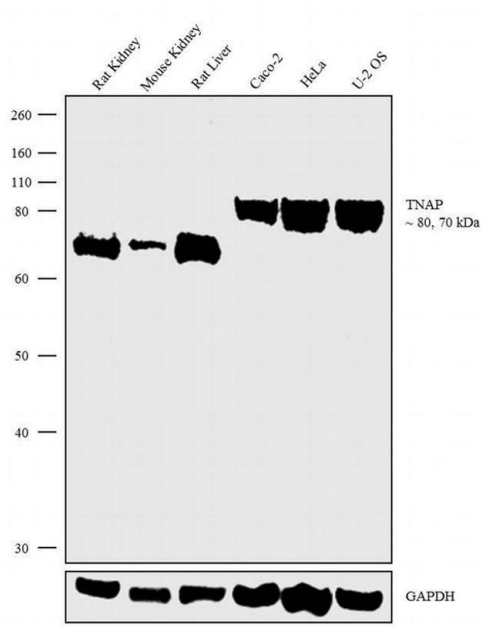
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For ALPL Recombinant Rabbit Monoclonal Antibody (7H11L3)



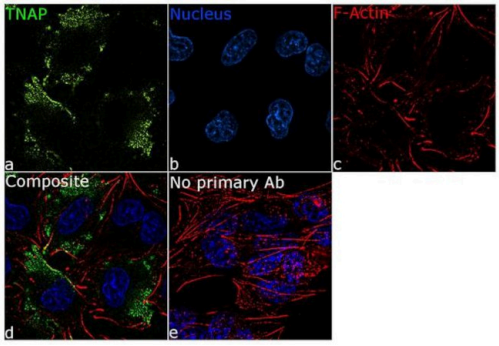
ALPL Antibody (702454)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. U-2 OS cells were transfected with TNAP siRNA and decrease in signal intensity was observed in Western blot application using Anti-TNAP Recombinant Rabbit Monoclonal Antibody (Product # 702454). {KD}



ALPL Antibody (702454) in WB

Western blot analysis was performed on Membrane enriched extracts (30 µg lysate) of Caco-2 (Lane 4), HeLa (Lane 5) U-2 OS (Lane 6) and tissue extracts of Rat Kidney (Lane 1), Mouse Kidney (Lane 2) and Rat Liver (Lane 3). The blots were probed with Anti-TNAP Recombinant Rabbit Monoclonal Antibody (Product # 702454, 2.5 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). 70 and 80 kDa band corresponding to TNAP was observed respectively across the cell lines and tissues tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



ALPL Antibody (702454) in ICC/IF

For immunofluorescence analysis, SH-SY5Y cells were fixed for detection of endogenous TNAP using Anti- TNAP Recombinant Rabbit Monoclonal Antibody (Product # 702454, 5 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of TNAP protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating membrane localization of TNAP. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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