

NGAL Recombinant Rabbit Monoclonal Antibody (11H10L7)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	11H10L7
Conjugate	Unconjugated
Immunogen	Protein corresponding to human NGAL (aa21-aa198)
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_2724833

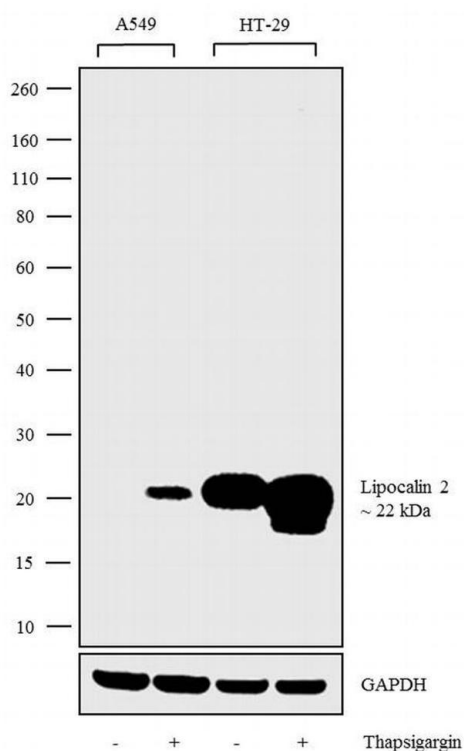
Applications	Tested Dilution	Publications
Western Blot (WB)	2.5 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

This antibody is predicted to react with Monkey, Rabbit, Sheep

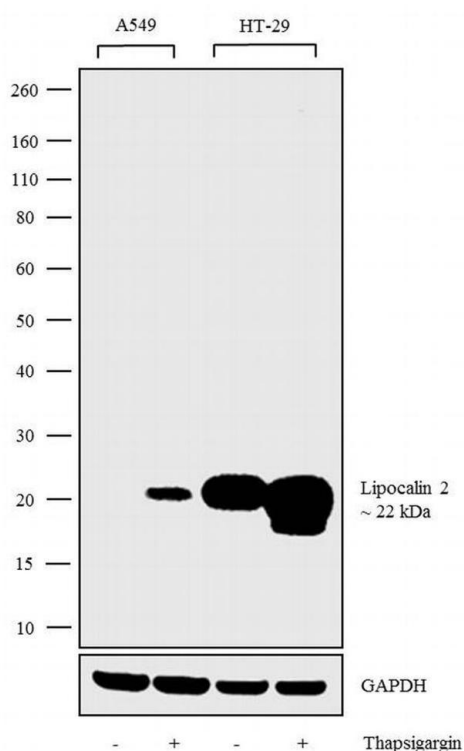
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages 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 NGAL Recombinant Rabbit Monoclonal Antibody (11H10L7)



NGAL Antibody (702248)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Anti-Lipocalin 2 Recombinant Rabbit Monoclonal Antibody (Product # 702248), shows increased expression of Lipocalin 2 in A549 and HT-29 cells upon Thapsigargin treatment. {TM}

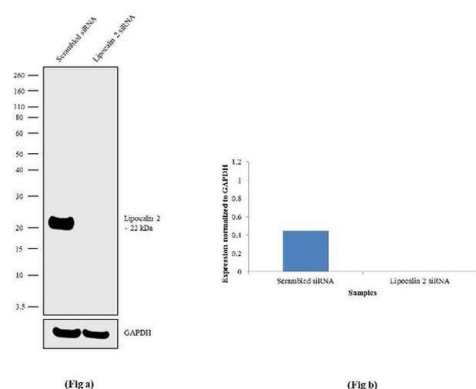


NGAL Antibody (702248) in WB

Western blot analysis was performed on Whole cell extracts (30 µg lysate) of A549 (Lane 1), A549 treated with Thapsigargin (500 nM for 48 hrs) (Lane 2), HT-29 (Lane 3) and HT-29 treated with Thapsigargin (500 nM for 48 hrs) (Lane 4). The blots were probed with Anti-Lipocalin 2 Recombinant Rabbit Monoclonal Antibody (Product # 702248, 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). A 22 kDa band corresponding to Lipocalin 2 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), 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).

NGAL Antibody (702248) in WB

Knockdown of Lipocalin 2 was achieved by transfecting PC-3 cells with Lipocalin 2 specific siRNA (Silencer® select Product # s8114+s8112). Western blot analysis (Fig a) was performed using whole cell extracts from Lipocalin 2 knockdown cells (Lane 2) and non-specific scrambled siRNA transfected cells (Lane 1). The blots were probed with Anti-Lipocalin 2 Recombinant Rabbit Monoclonal Antibody (Product # 702248, 1-3 µg/mL) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). Densitometric analysis of this Western blot is shown in histogram (Fig b). Loss of signal upon siRNA mediated knock down confirms that antibody is specific to Lipocalin 2.



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1 Reference

Western Blot (1)

Cellular microbiology	Year 2020
Induction of neutrophil extracellular traps by <i>Campylobacter jejuni</i> .	Species Human
"Published figure using NGAL recombinant monoclonal antibody (Product # 702248) in Western Blot"	Dilution 1:5000
Authors: Callahan S,Doster RS,Jackson JW,Kelley BR,Gaddy JA,Johnson JG	

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