TLR2 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide: CLEIDASDLQSYEPKSLKSIQNVSHLI, corresponding to amino acids 179-204 of Human TLR2.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.1% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_561722

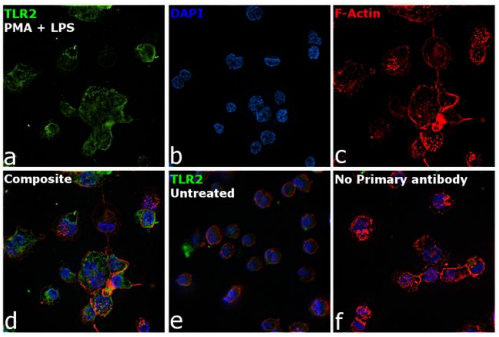
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:250	-
Immunocytochemistry (ICC/IF)	1:100-1:500	-
ELISA (ELISA)	1:37,500	-

Product Specific Information

Recommended positive controls: Human spleen sections or human peripheral blood.

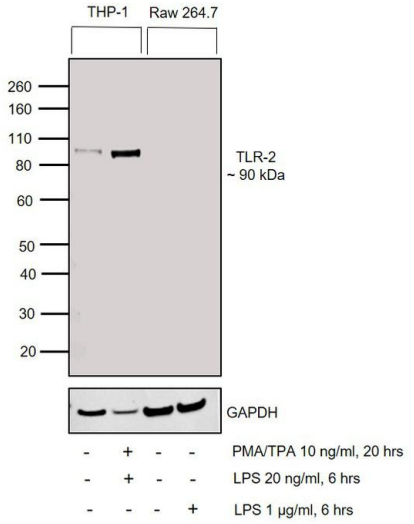
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For TLR2 Polyclonal Antibody



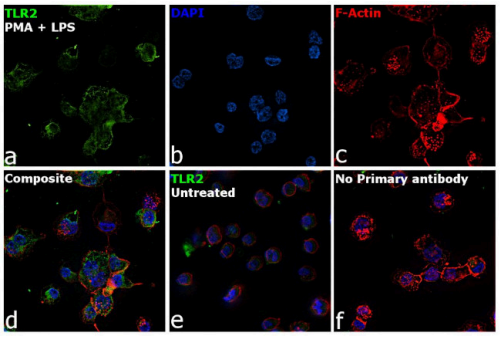
TLR2 Antibody (PA1-21611)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis of TLR2 using TLR2 Goat Polyclonal Antibody (Product # PA1-21611) shows increased expression of TLR2 protein in THP-1 cell line upon treatment with PMA and LPS in membrane lipid rafts. {TM}



TLR2 Antibody (PA1-21611) in WB

Western blot was performed using Anti-TLR2 Polyclonal Antibody (Product # PA1-21611) and a 90 kDa band corresponding to TLR2 was observed in human THP-1 cell line tested and not in mouse Raw 264.7 cell line. Membrane enriched extracts (30 µg lysate) of THP-1 (Lane 1), THP-1 treated with 10 ng/mL PMA for 20 hours and 20 ng/mL LPS for 6 hours (Lane 2), Raw 264.7 (Lane 3) and Raw 264.7 treated with 1 µg/mL LPS for 6 hours (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Rabbit anti-Goat IgG Heavy Chain Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27014, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



TLR2 Antibody (PA1-21611) in ICC/IF

Immunofluorescence analysis of TLR2 was performed using THP-1 cells and THP-1 treated with PMA (10 ng/mL, 20 hours) and LPS (20 ng/mL, 6 hours). The cells were fixed with 4% paraformaldehyde for 10 minutes and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with TLR2 Polyclonal Antibody (Product # PA1-21611) at 1:100 dilution in 0.1% BSA and incubated overnight at 4 degree and then labeled with Rabbit anti-Goat IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488 (Product # A-11078) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green) in THP-1 treated cells. Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image of THP-1 treated cells, which shows higher expression for TLR2 protein showing localization in lipid rafts in membrane. Panel e represents the merged image of THP-1 cells, that shows lower expression for TLR2 protein. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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