

RIP2 Polyclonal Antibody

Catalog NumberPA1-30808

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent
Type	Antibody	Western Blot (WB)	1 µg/mL
Immunogen	Synthetic peptide, corresponding to amino acids 11-30 of Human RICK.	Immunocytochemistry (ICC/IF)	10 µg/mL
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: Whole cell lysate from HeLa cells. Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Serine/threonine/tyrosine kinase that plays an essential role in modulation of innate and adaptive immune responses. Upon stimulation by bacterial peptidoglycans, NOD1 and NOD2 are activated, oligomerize and recruit RIPK2 through CARD-CARD domains. Contributes to the tyrosine phosphorylation of the guanine exchange factor ARHGEF2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Once recruited, RIPK2 autophosphorylates and undergoes 'Lys-63'-linked polyubiquitination by E3 ubiquitin ligases XIAP, BIRC2 and BIRC3. The polyubiquitinated protein mediates the recruitment of MAP3K7/TAK1 to IKBKG/NEMO and induces 'Lys-63'-linked polyubiquitination of IKBKG/NEMO and subsequent activation of IKBKB/IKKB. In turn, NF-kappa-B is released from NF-kappa-B inhibitors and translocates into the nucleus where it activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Plays also a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation.

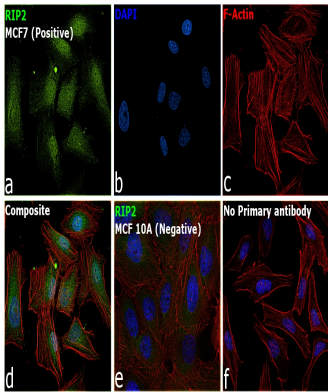
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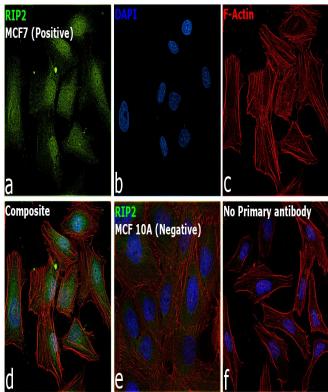
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Product Images For RIP2 Polyclonal Antibody



RIP2 Antibody (PA1-30808)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-RIP2 Polyclonal Antibody (Product # PA1-30808), shows expression of RIP2 in MCF7 when compared to MCF 10A. {RE}



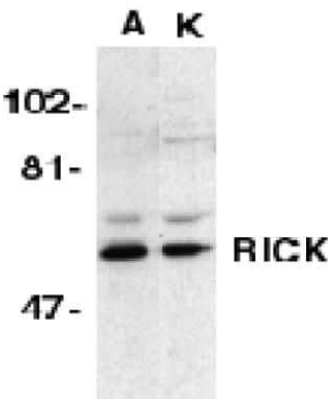
RIP2 Antibody (PA1-30808) in ICC/IF

Immunofluorescence analysis of Receptor-interacting serine/threonine-protein kinase 2 was performed using 70% confluent log phase MCF7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with RIP2 Polyclonal Antibody (Product # PA1-30808) at 10 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). 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 showing Cytoplasmic and Nuclear localization. Panel e represents MCF 10A cells with decreased expression of RIP2. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



RIP2 Antibody (PA1-30808) in ICC/IF

Immunocytochemical analysis of RICK in A431 cells using a RICK polyclonal antibody (Product # PA1-30808) at a dilution of 10µg/mL.



RIP2 Antibody (PA1-30808) in WB

Western blot analysis of RICK in A431 (A) and K562 (K) whole cell lysate using a RICK polyclonal antibody (Product # PA1-30808).

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