

Rabbit NAKED2 Polyclonal Antibody | anti-NAKED2 antibody

Phospho-NAKED2 (Tyr247) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329423	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Horse (100%), Dog (100%)	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

NAKED2; Polyclonal Antibody; Phospho-NAKED2 (Tyr247) Antibody; hNkd2; Naked 2; Naked-2; nkd2; NKD2_HUMAN; Protein naked cuticle homolog 2; anti-NAKED2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Horse (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-NAKED2 (Tyr247) Antibody detects endogenous levels of NAKED2 only when phosphorylated at Tyr247. Tissue Specificity: Expressed in kidney, lung, pancreas and spleen.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-NAKED2 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NAKED2 around the phosphorylation site of Tyr247.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Ubiquitinated, leading to rapid proteasomal degradation. Interaction with TGFA interferes with RNF25 binding and protects against ubiquitination mediated by RNF25.
Subunit Structure	Interacts with DVL1, DVL2, DVL3 and PPP2R3A (By similarity). Interacts with RNF25 and TGFA (via cytoplasmic domain).
Similarity	The N-terminal domain comprising the first 217 amino acid residues is mostly unstructured. Belongs to the NKD family.
Subcellular Location	Cell membrane. Cytoplasm. Cytoplasmic vesicle.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining HepG2 cells(4h of LPS treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(AF4347 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Jurkat, using Phospho-NAKED2(Tyr247) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NAKED2 antibody

Cell autonomous antagonist of the canonical Wnt signaling pathway. May activate a second Wnt signaling pathway that controls planar cell polarity (By similarity). Required for processing of TGFA and for targeting of TGFA to the basolateral membrane of polarized epithelial cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	402747026
NCBI GeneID	85409
NCBI Accession #	NP_001258011.1
NCBI GenBank Nucleotide #	NM_001271082.1
UniProt Accession #	Q969F2; Q96EK8; Q9BSN0
Molecular Weight	34,314 Da
NCBI Official Full Name	protein naked cuticle homolog 2 isoform 2
NCBI Official Synonym Full Names	naked cuticle homolog 2
NCBI Official Symbol	NKD2
NCBI Official Synonym Symbols	Naked2
NCBI Protein Information	protein naked cuticle homolog 2
UniProt Protein Name	Protein naked cuticle homolog 2
UniProt Gene Name	NKD2
UniProt Synonym Gene Names	Naked-2; hNkd2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.