

Rabbit WNT3A Polyclonal Antibody | anti-WNT3A antibody

WNT3A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325900	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

WNT3A; Polyclonal Antibody; WNT3A Antibody; Protein Wnt 3a Precursor; Protein Wnt-3a; Wingless type MMTV integration site family member 3A; Wnt 3a; wnt3a; WNT3A protein; WNT3A_HUMAN; anti-WNT3A antibody

PRODUCT SPECIFICATIONS

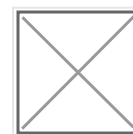
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	WNT3A antibody detects endogenous levels of total WNT3A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	352
Applicable Applications for anti-WNT3A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human WNT3A
Subcellular Location	Secreted > Extracellular Space > Extracellular Matrix.
Tissue Specificity	Moderately expressed in placenta and at low levels in adult lung, spleen, and prostate.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of NCI-H292 lysate using WNT3A antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA325900 at 1/100 staining Human lung cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA325900 staining HEPG2 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-WNT3A antibody	Description: The Wnt family includes several secreted glycoproteins that play important roles in animal development (1). There are 19 Wnt genes in the human genome that encode functionally distinct Wnt proteins (2). Wnt members bind to the Frizzled family of seven-pass transmembrane proteins and activate several signaling pathways (3). The canonical Wnt/beta-catenin pathway also requires a coreceptor from the low-density lipoprotein receptor family (4). Aberrant activation of Wnt signaling pathways is involved in several types of cancers (5). Function: Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt signaling pathway that results in activation of transcription factors of the TCF/LEF family (PubMed:20093360, PubMed:21244856, PubMed:24841207, PubMed:26902720). Required for normal embryonic mesoderm development and formation of caudal somites. Required for normal morphogenesis of the developing neural tube (By similarity). Mediates self-renewal of the stem cells at the bottom on intestinal crypts (in vitro) (PubMed:26902720). Subunit Structure: Forms a soluble 1:1 complex with AFM; this prevents oligomerization and is required for prolonged biological activity (PubMed:26902720). The complex with AFM may represent the physiological form in body fluids (PubMed:26902720). Homooligomer; disulfide-linked, leading to inactivation (By similarity). Interacts with PORCN (PubMed:20826466). Interacts with APCDD1 and WLS (PubMed:16678095, PubMed:20393562). Component of the Wnt-Fzd-LRP5-LRP6 signaling complex that contains a WNT protein, a FZD protein and LRP5 or LRP6. Interacts directly in the complex with LRP6 (PubMed:20093360). Post-translational Modifications: Palmitoleoylation by PORCN is required for efficient binding to frizzled receptors. Palmitoleoylation is required for proper trafficking to cell surface, vacuolar acidification is critical to release palmitoleoylated WNT3A from WLS in secretory vesicles (PubMed:20826466, PubMed:21244856, PubMed:24292069). Depalmitoleoylated by NOTUM, leading to inhibit Wnt signaling pathway, possibly by promoting disulfide bond formation and oligomerization (PubMed:25731175). Proteolytic processing by TIKI1 and TIKI2 promotes oxidation and formation of large disulfide-bond oligomers, leading to inactivation of WNT3A. Disulfide bonds have critical and distinct roles in secretion and activity. Loss of each conserved cysteine in WNT3A results in high molecular weight oxidized Wnt oligomers, which are formed through inter-Wnt disulfide bonding. Similarity: Belongs to the Wnt family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	14916475
NCBI GeneID	89780
NCBI Accession #	NP_149122.1
NCBI GenBank Nucleotide #	NM_033131.3
UniProt Accession #	P56704 ; Q3SY79 ; Q3SY80 ; Q969P2
Molecular Weight	Observed: 39 kDa Predicted: 40 kDa
NCBI Official Full Name	protein Wnt-3a
NCBI Official Synonym Full Names	Wnt family member 3A
NCBI Official Symbol	WNT3A
NCBI Protein Information	protein Wnt-3a

UniProt Protein Name	Protein Wnt-3a
UniProt Gene Name	WNT3A

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/wnt3a-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325900>