

Datasheet for ABIN7539287 **anti-WNT3A antibody**



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Overview

Quantity:	100 µg
Target:	WNT3A
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This WNT3A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Wnt-3a antibody
Immunogen:	Recombinant human Wnt-3a
Isotype:	IgG
Specificity:	Chromosomal location:1q42
Purification:	Protein A purified

Target Details

Target:	WNT3A
Alternative Name:	Wnt-3a (WNT3A Products)
Background:	Wnt-3a,Wnt-3a is one of about 19 vertebrate members of the Wingless-type MMTV integration site (Wnt) family of highly conserved, cysteine-rich secreted glycoproteins important for normal

Target Details

developmental processes. Wnts bind to receptors of the Frizzled family in conjunction with a coreceptor of the low-density lipoprotein receptor-related protein family (LRP-5 or -6), or the Ryk atypical receptor tyrosine kinase. During development, Wnt-3a is a morphogen that is thought to coordinate somitogenesis and mesoderm boundary determination. When Wnt-3a is deleted, mice fail to develop a hippocampus, and show defects in anterior-posterior patterning, somite development and tailbud formation. Wnt-3a has also been implicated in chondrocyte differentiation. Like other Wnts, Wnt-3a is modified by palmitate addition (at Cys 77) following glycosylation, which increases its hydrophobicity, secretion and activity. A second site at Ser 209 modified by palmitoleic acid also contributes. Human Wnt-3a shares 96 % amino acid (aa) identity with mouse, bovine and canine Wnt-3a, and 89 %, 86 % and 84 % aa identity with chicken, Xenopus and zebrafish Wnt-3a, respectively. It also shares 87 % aa identity with Wnt-3. Human Wnt-3a is a 44 kDa secreted hydrophobic glycoprotein containing a conserved pattern of 24 cysteine residues.

Gene ID: 89780

NCBI Accession: [NM_033131](#), [NP_149122](#)

UniProt: [P56704](#)

Pathways: [WNT Signaling](#), [Regulation of Muscle Cell Differentiation](#), [Regulation of Cell Size](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: Western Blot: Use 1-5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL.

Buffer: PBS

Storage: 4 °C, -20 °C

Storage Comment: The lyophilized antibody is stable for at least 2 years at -20°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C. Addition of a carrier protein or 50% glycerol is recommended for frozen

Handling

aliquots.

Expiry Date: 24 months