

#2391 Store at -20C

## Wnt3a Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	M	Transfected Only	42	Rabbit	#P56704	89780

## Product Usage Information

## Application

Western Blotting

## Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

## Specificity / Sensitivity

Wnt3a antibody detects transfected Wnt3a protein in L cells and the conditioned medium from L/Wnt3a cells. Based on homology, it is expected to also recognize Wnt3.

## Species predicted to react based on 100% sequence homology:

Human

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp294 of human Wnt3a. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

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/β-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).

Wnt3a protein is palmitoylated and can function as a growth factor for hematopoietic stem cells (6). Although functionally distinct, Wnt3a shows high homology to Wnt3 (7).

## Background References

1. Cadigan, K.M. and Nusse, R. (1997) *Genes Dev.* 11, 3286-3305.
2. Moon, R.T. et al. (1997) *Trends Genet.* 13, 157-162.
3. Kohn, A.D. and Moon, R.T. (2004) *Cell Calcium* 38, 439-446.
4. Logan, C.Y. and Nusse, R. (2004) *Annu. Rev. Cell Dev. Biol.* 20, 781-810.
5. Giles, R.H. et al. (2003) *Biochim. Biophys. Acta.* 1653, 1-24.
6. Willert, K. et al. (2003) *Nature* 423, 448-52.
7. Katoh, M. (2001) *Int. J. Oncol.* 19, 977-82.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

WB: Western Blotting

## Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster  
X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse  
GP: Guinea Pig Rab: rabbit All: all species expected

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