

**Goat Anti-WNT3 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2161a****Specification**

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**Goat Anti-WNT3 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P56703</a>
Other Accession	<a href="#">NP_110380</a> , <a href="#">7473</a> , <a href="#">22415 (mouse)</a> , <a href="#">24882 (rat)</a>
Reactivity	Human, Mouse
Predicted	Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	39645

**Goat Anti-WNT3 Antibody - Additional Information****Gene ID** 7473**Other Names**

Proto-oncogene Wnt-3, Proto-oncogene Int-4 homolog, WNT3, INT4

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-WNT3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-WNT3 Antibody - Protein Information****Name** WNT3**Synonyms** INT4**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:&lt;a href="http://www.uniprot.org/citations/26902720" target="\_blank"&gt;26902720&lt;/a&gt;). Required for normal gastrulation, formation of the primitive

streak, and for the formation of the mesoderm during early embryogenesis. Required for normal formation of the apical ectodermal ridge (By similarity). Required for normal embryonic development, and especially for limb development (PubMed:<a href="http://www.uniprot.org/citations/14872406" target="\_blank">14872406</a>).

#### Cellular Location

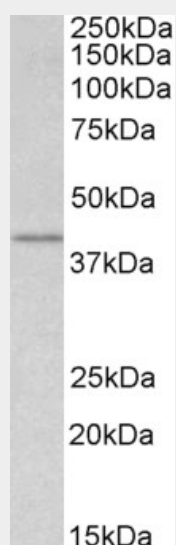
Secreted, extracellular space, extracellular matrix. Secreted

#### Goat Anti-WNT3 Antibody - Protocols

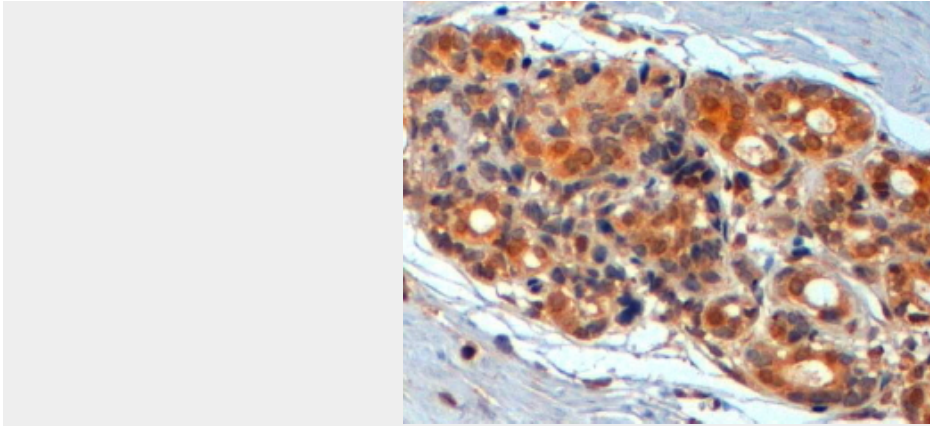
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Goat Anti-WNT3 Antibody - Images



AF2161a (1 µg/ml) staining of lysate of cell line HEK293 (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB7253 (2 µg/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

### **Goat Anti-WNT3 Antibody - Background**

The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It encodes a protein which shows 98% amino acid identity to mouse Wnt3 protein, and 84% to human WNT3A protein, another WNT gene product. The mouse studies show the requirement of Wnt3 in primary axis formation in the mouse. Studies of the gene expression suggest that this gene may play a key role in some cases of human breast, rectal, lung, and gastric cancer through activation of the WNT-beta-catenin-TCF signaling pathway. This gene is clustered with WNT15, another family member, in the chromosome 17q21 region.

### **Goat Anti-WNT3 Antibody - References**

Genetic variants in COL2A1, COL11A2, and IRF6 contribute risk to nonsyndromic cleft palate. Nikopensius T, et al. Birth Defects Res A Clin Mol Teratol, 2010 Jul 29. PMID 20672350.  
Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2010 Apr. PMID 20198315.  
Multiple common variants for celiac disease influencing immune gene expression. Dubois PC, et al. Nat Genet, 2010 Apr. PMID 20190752.  
Variation in WNT genes expression in different subtypes of chronic lymphocytic leukemia. Memarian A, et al. Leuk Lymphoma, 2009 Dec. PMID 19863181.  
Assessment of a polymorphism of SDK1 with hypertension in Japanese Individuals. Oguri M, et al. Am J Hypertens, 2010 Jan. PMID 19851296.