

**Proto-oncogene WNT-1 Antibody**

□ Cat # WNT111-A

Rabbit anti-Human Proto-oncogene WNT-1 antibody, affinity purified

**SIZE:** 100 ug

Proto-oncogene Wnt-1 is a protein that in humans is encoded by the WNT1 gene. The WNT gene family consists of structurally related genes that 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 is very conserved in evolution, and the protein encoded by this gene is known to be 98% identical to the mouse Wnt1 protein at the amino acid level.

Wnt-1 activation induces a complex signaling cascade that ultimately leads to the increased expression of over fifty genes. An important component of Wnt-1 signaling is the stabilization, and resulting accumulation, of the intracellular signaling protein,  $\beta$ -catenin. Wnt signaling induces and maintains the transformed phenotype and, in certain embryonic cell lines, supports self renewal in the absence of significant differentiation. Elevated levels of Wnt proteins are associated with tumorigenesis and are present in numerous human breast cancers.

**Source of Antigen or Antibodies****Uniprot:** P04628**Host:** Rabbit**Clonality:** Polyclonal**Purification:** Ammonium sulfate followed by peptide affinity purification**Immunogen:** Synthetic peptide within amino acids 200-300 derived from Human Proto-oncogene WNT-1 conjugated to KLH.**Reactivity:** Human WNT-1**Cross reactivity:** The peptide region used as an immunogen has 100% homology across various species. Reactivity has only been confirmed in-house with human samples.**Subcellular Location:** Extracellular region or secreted**Alternative name:** Proto-oncogene Int-1 homolog**Recommended Secondary Antibody:** Goat anti-Rabbit IgG-HRP (**ADI cat#20320**)**Negative Control:** Non-immune Rabbit IgG (**ADI cat# 20009-1**).**Form & Storage of Antibodies****Affinity pure IgG**

□ Solution

Concentration: 0.5 mg/ml                      Volume: 200 ul  
Supplied in PBS pH 7.4 + 0.1% BSA□ **Lyophilized powder**

Reconstitute powder in 200 ul distilled water to 0.5 mg/ml

**Storage:****Short-term:** 4°C for 1 month**Long-term:** at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.**Recommended Usage****ELISA:** Assay dependent concentration. Typically 0.1-2 ug/ml for capture or detection antibodies**Western Blotting:** 0.5-2 ug/ml

Theoretical band size: 41 kDa

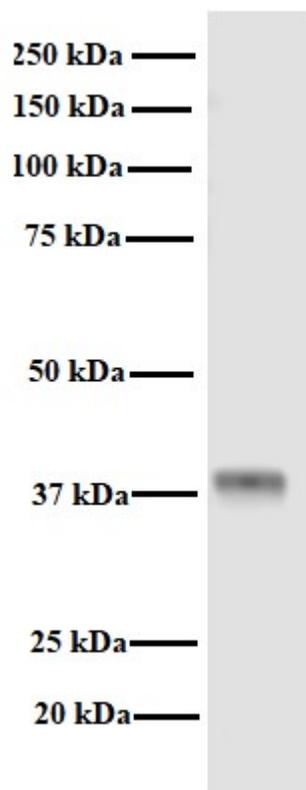
Observed Band size: ~38 kDa. Note: 38 kDa represents the mature form of the protein (signal peptide cleavage)

\*Above concentrations are a suggestion and user's must optimize assay based on their conditions. Antibody may work in other applications such as Flow Cytometry, IF, or IP. These methods have not been tested by ADI.

*\*This product is for In vitro research use only.*

WNT111-A

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25 ug of a MCF7 lysate was heated for 5 minutes at 95°C then loaded into a 10% SDS-PAGE gel. The lysate was electrophoretically separated for ~1 hour and 30 minutes at 100V and transferred to a 0.2 um nitrocellulose membrane using the 'Mixed MW' settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with 1% Fish plasma (Aquablock, EastCoastBio). **WNT111-A** was diluted with TBST+0.1% BSA to 1 ug/ml and incubated overnight at 4°C. Blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (**ADI cat#20320**) was diluted 1:10,000 (50 ng/ml) in TBST+0.1% BSA and incubated for 1 hour at room temperature. The blot was washed with TBS-T 3 times for 5 minutes each. The blot was then incubated with ADI Femto ECL substrate (**ADI cat#80210**) for 5 minutes imaged on a CCD imaging system. Specific band is observed at ~38 kDa.