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## Product Information

### Anti-Wnt-4 (Mouse)

Developed in Goat, Affinity isolated Antibody

Product Number **W 2266**

#### Product Description

Anti-Wnt-4 (Mouse) was developed in goat using a purified *E. coli*-derived, recombinant mouse Wnt-4 peptide consisting of amino acid residues 37 - 76 and 222 – 295 joined by a linker (GGGGSGGGSGGGGS). The polypeptide also has six histidine residues added at the carboxy-terminus. The antibody was affinity isolated.

Anti-Wnt-4 (Mouse) recognizes rmWnt-4 peptide in direct ELISAs, immunoblotting and immunohistochemistry. The antibody has also been shown to recognize a mammalian cell-expressed mouse Wnt-4 protein in western blot analysis. This antibody shows no cross-reactivity with other 6 histidine containing peptides.

Wnt proteins are secreted glycoproteins that bind members of the frizzled family of seven transmembrane domain receptors. Wnts play critical roles in embryonic development in such processes as axis patterning, regulation of cell fate decisions, tissue polarity and cell movements. Recently their importance has also been shown in synaptogenesis and axon guidance.<sup>1,2</sup> In adults, Wnts function in homeostasis, and inappropriate activation of the Wnt pathway is implicated in a variety of cancers.<sup>2</sup>

#### Reagent

The antibody is supplied lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 100 µg/mL.

#### Storage/Stability

Lyophilized powder can be stored intact at room temperature for several weeks. For extended storage, it should be stored at -20 °C or below. The reconstituted solution can be stored at 2-8 °C for up to 2 weeks. For longer storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Product Profile

The recommended working dilutions are 0.1-0.2 µg/ml for immunoblotting, 0.5-1 µg/ml for Direct ELISA, and 15 µg/ml for immunohistochemistry using 10 µm sections.

**Note:** In order to obtain best results and assay sensitivities of different techniques and preparations, determination of optimal working dilutions by titration test is recommended.

#### References

1. Zou, Y., Wnt signaling in axon guidance, *Trends Neurosci.*, **27**, 528-532 (2004).
2. Miller, J.R., The Wnts, *Genome Biol.*, **3**, reviews3001.1-3001.15 (2002).

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