



Anti-human Wnt-9a Antibody

ORDERING INFORMATION

Catalog Number: AF3157

Lot Number: WTG01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Wnt-9a

Immunogen: *E. coli*-derived rhWnt-9a

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant peptide containing human Wnt-9a, aa 48 - 92 and 231 - 304 joined by a linker peptide (rhWnt-9a; Accession # O14904). The recombinant peptide also contains additional sequences at the N- and C-termini to aid in expression and purification. Human Wnt-9a specific IgG was purified by human Wnt-9a affinity chromatography. Wnt-9a, previously known as Wnt-14, is a secreted glycoprotein belonging to the Wnt family of signaling molecules that are important in development. Within the sequences used as immunogens, human Wnt-9a shares 97% amino acid sequence identity with the mouse or rat protein.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human Wnt-9a in the applications listed below.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Wnt-9a. The detection limit for rhWnt-9a is approximately 2 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody will detect Wnt-9A in cells and tissues. The working dilution is 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Wnt-9a. The detection limit for rhWnt-9a is approximately 2 ng/well. In this format, this antibody shows less than 5% cross-reactivity with rmWnt-9b and less than 1% cross-reactivity with rmWnt-1 and rmWnt-4.

Optimal dilutions should be determined by each laboratory for each application.