Product datasheet

Anti-Wnt3a antibody ab28472

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Overview

Product name                  Anti-Wnt3a antibody
Description                  Rabbit polyclonal to Wnt3a
Host species                 Rabbit
Tested applications          Suitable for: WB, IHC-Fr, IP, IHC - Wholemount, ICC/IF
                             Unsuitable for: IHC-P
Species reactivity           Reacts with: Mouse, Chicken, Human, Zebrafish
                             Predicted to work with: Xenopus laevis, a wide range of other species
Immunogen                    Synthetic peptide corresponding to Human Wnt3a aa 250-350.
                             (Peptide available as ab23326, ab23327)
Positive control             In WB, this antibody gave a positive signal when tested against recombinant Wnt3a protein.

Properties

Form                             Liquid
Storage instructions           Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer                 Preservative: 0.02% Sodium Azide
                             Constituents: 1% BSA, PBS, pH 7.4
Purity                         Immunogen affinity purified
Clonality                      Polyclonal
Isotype                        IgG

Applications

Our Abpromise guarantee covers the use of ab28472 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Application notes

Target

Function
Ligand for members of the frizzled family of seven transmembrane receptors. Wnt-3 and Wnt-3a play distinct roles in cell-cell signaling during morphogenesis of the developing neural tube.

Tissue specificity
Moderately expressed in placenta and at low levels in adult lung, spleen, and prostate.

Sequence similarities
Belongs to the Wnt family.

Cellular localization
Secreted > extracellular space > extracellular matrix.

Images

Anti-Wnt3a antibody (ab28472) at 1 µg/ml + Mouse Wnt3a Full-length Recombinant Protein (Tagged) at 0.1 µg

Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 39 kDa
Observed band size: 68 kDa

why is the actual band size different from the predicted?

ab28472 was tested against Mouse Wnt3a Full-length Recombinant Protein predicted to run at the molecular weight of 68kDa.
ab28472 stained human embryonic stem cells differentiated into a heterogeneous mix of cells at 5 ug/ml.

ab28472 staining Wnt3a in the dentate gyrus of rat brain tissue by Immunohistochemistry (Frozen sections).

Brains were sectioned in the coronal plane at 20 µm. The slides were left in a fume hood to dry overnight, then stored at -70°C. For each rat twelve sections through the dorsal hippocampus were analyzed. For single staining with Wnt3a, sections were incubated with ab28472 at 5 ug/ml in 0.5% Triton with 1% goat serum overnight in a humidified chamber at room temperature. The following day, after two washes with KPBS, they were incubated in Alexa Fluor 568 goat anti-rabbit (1/200 in 0.5% Triton) for one hour, and washed twice with KPBS and covered slipped.
IHC-Wholemount image of Wnt3a (ab28472) on zebrafish larvae. Whole zebrafish larvae were fixed in paraformaldehyde and then permeabilized in proteinase K, before blocking in 5% serum for 1 hour at RT. The image above is a ventral view of the head, showing the ceratohyal cartilage (of the jaw).

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