

Recombinant mouse Wnt3a protein ab81484

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Description

Product name	Recombinant mouse Wnt3a protein
Biological activity	<p>The ED₅₀ was determined by its ability to induced alkaline phosphatase production by CCL-226 cells.</p> <p>The expected ED₅₀ for this effect is 0.4-0.6 ng/ml.</p>
Purity	<p>> 75 % SDS-PAGE.</p> <p>Greater than 75% by HPLC analyses.</p>
Endotoxin level	< 1.000 Eu/μg
Expression system	Cell Culture
Accession	<u>P27467</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	<p>SYPIWWSLAVGP QYSSLSTQPI LCASIPGLVP KQLRFCRNYV EIMPSVAEGV KAGIQECQHQ FRGRRWNCCT VSNSLAIFGP VLDKATRESA FVHAIASAGV AFAVTRSCAE GSAAICGCSS RLQGSPGEGW KWGGCSEDIE FGGMVSREFA DARENRPDAR SAMNRHNNEA GRQAIASHMH LKCKCHGLSG SCEVKTCWWS QPDFRTIGDF LKDKYDSASE MVVEKHRESR GWVETLRPRY TYFKVPTERD LVYYEASPNF CEPNPETGSF GTRDRTCNVS SHGIDGCDLL CCGRGHNART ERRREKCHCV FHWCCYVSCQ ECTRVYDVHT CK</p>
Amino acids	19 to 352
Additional sequence information	ab81484 is a monomeric glycoprotein containing 334 amino acid residues. This protein is the mature full length (aa19-352), it does not contain the signal peptide from aa 1-18.

Specifications

Our **Abpromise guarantee** covers the use of **ab81484** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications

Cell Differentiation

SDS-PAGE

Cellular Activation

HPLC

Form

Lyophilized

Additional notes

Endotoxin level is less than 0.2 ng per µg (2EU/µg).

Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized from 10mM Sodium Phosphate, pH 7.5 + 500mM NaCl + 0.5% CHAPS.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at 4°C (up to 6 months). The lyophilized protein is stable for a few weeks at room temperature. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituent: 13% CHAPS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute to a concentration of 0.1 mg/mL with ddH₂O. Store at 4°C for up to 1 week or dilute further in a buffer containing a carrier protein or stabilizer and store working aliquots at -20°C to -80°C for up to 3 months.

General Info

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.

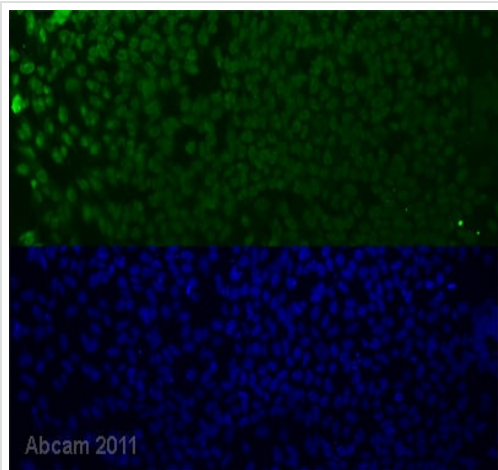
Sequence similarities

Belongs to the Wnt family.

Cellular localization

Secreted > extracellular space > extracellular matrix.

Images



Cell differentiation - Recombinant mouse Wnt3a protein (ab81484)

This image is courtesy of Emily Moorefield, Wake Forest Institute for Regenerative Medicine, NC, USA

Human embryonic stem cells (HUES4) were differentiated as monolayer cultures on matrigel coated dishes using a protocol described in Kroon et al, Nat Biotechnol. (2008). Inhibin beta A ([ab50051](#)) and Wnt3a (ab81484) were added to cultures to direct differentiation towards definitive endoderm. This image was taken 3 days after induction, where the definitive endoderm marker FOXA2 ([ab40874](#) in green) is abundant. Dapi staining is shown in blue. Magnification: 200x. Negative controls of fluorescently conjugated secondary antibodies only showed no staining.

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