

### Recombinant mouse Wnt3a protein ab81484

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#### 製品の詳細

製品名	Recombinant mouse Wnt3a protein
生理活性	The ED <sub>50</sub> was determined by its ability to induced alkaline phosphatase production by CCL-226 cells. The expected ED <sub>50</sub> for this effect is 0.4-0.6 ng/ml.
精製度	> 75 % SDS-PAGE. Greater than 75% by HPLC analyses.
エンドトキシン・レベル	< 1.000 Eu/μg
発現系	Cell Culture
アクセッション番号	<b><u>P27467</u></b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Mouse
配列	<div> SY PIWWSLAVGP QYSSLSTQPI LCASIPGLVP  KQLRFCRNYV EIMPSVAEGV KAGIQECQHQ  FRGRRWNCTT VSNSLAIFGP VLDKATRESA  FVHAIASAGV AFAVTRSCAE GSAAICGCSS  RLQGSPGEGW KWGGCSEDIE FGGMVSREFA  DARENRPDAR SAMNRHNEA GRQAIASHMH  LKCKCHGLSG SCEVKTCWWS QPDFRTIGDF  LKDKYDSASE MVVEKHRESR GWVETLRPRY  TYFKVPTERD LVYYEASPNF CEPNPETGSF  GTRDRTCNVS SHGIDGCDLL CCGRGHNART  ERRREKCHCV FHWCCYVSCQ ECTRVYDVHT CK </div>

領域 19 to 352

配列の追加情報 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.

#### 特性

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.

#### アプリケーション

Cell Differentiation

SDS-PAGE

Cellular Activation

HPLC

#### 製品の状態

Lyophilized

#### 備考

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.

#### 前処理および保存

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##### 保存方法および安定性

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.

##### 再構成

Reconstitute to a concentration of 0.1 mg/mL with ddH<sub>2</sub>O. 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.

#### 関連情報

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##### 機能

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.

##### 組織特異性

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

##### 配列類似性

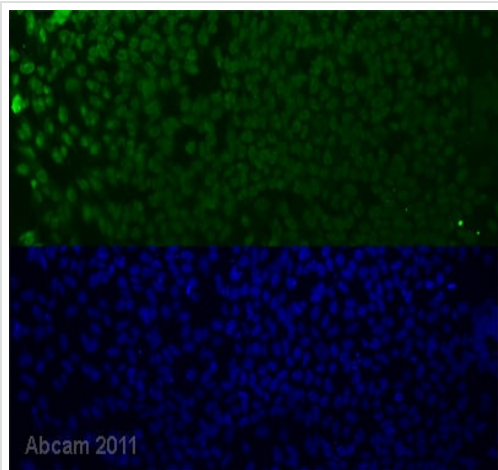
Belongs to the Wnt family.

##### 細胞内局在

Secreted > extracellular space > extracellular matrix.

#### 画像

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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.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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