

Recombinant Human Wnt5a protein ab204627

3 References 1 Image

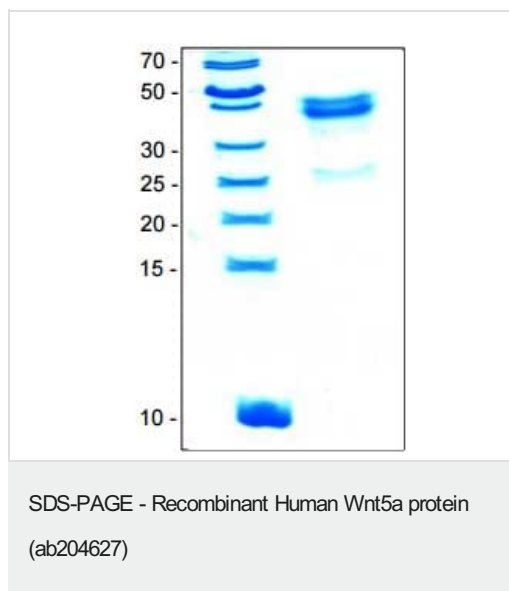
Description	
Product name	Recombinant Human Wnt5a protein
Purity	> 95 % SDS-PAGE. Purified by Nickel Sepharose HighTrap GE Endotoxin level: < 0.1 ng per µg of Wnt5a
Expression system	Escherichia coli
Accession	P41221
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MIIGAQPLCSQLAGLSQGQKKLCHLYQDHMQYIGEGAKTGI KECQYQFRH RRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNA MSRACREGELS TCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVD ARERERIHAKGS YESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSL KTCWLQLADFR KVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDL VYDPSPDYCV RNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFK TVQTERCHCKFH WCCYVKCKKCTENDQFVCKLEHHHHH
Predicted molecular weight	37 kDa including tags
Amino acids	62 to 380
Tags	His tag C-Terminus
Additional sequence information	NP_003383.2. This product is for the mature full length protein. The signal peptide and propeptide are not included.

Specifications

Our **Abpromise guarantee** covers the use of **ab204627** in the following tested applications.

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

Applications	SDS-PAGE
Form	Lyophilized
Additional notes	No direct biological data available at the moment but ab204627 binds to immobilized Human sROR2 in a functional ELISA.
Preparation and Storage	
Stability and Storage	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle. Constituent: 0.3% Acetic acid
Reconstitution	Reconstitute in water to a concentration of 0.1 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.
General Info	
Function	Ligand for members of the frizzled family of seven transmembrane receptors. Can activate or inhibit canonical Wnt signaling, depending on receptor context. In the presence of FZD4, activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway by promoting beta-catenin degradation through a GSK3-independent pathway which involves down-regulation of beta-catenin-induced reporter gene expression. Suppression of the canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates cell migration. Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma cells and may act as a tumor suppressor. Mediates motility of melanoma cells. Required during embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs and the genital tubercle. Inhibits type II collagen expression in chondrocytes.
Tissue specificity	Expression is increased in differentiated thyroid carcinomas compared to normal thyroid tissue and anaplastic thyroid tumors where expression is low or undetectable. Expression is found in thyrocytes but not in stromal cells (at protein level).
Sequence similarities	Belongs to the Wnt family.
Post-translational modifications	Palmitoylation is necessary for stimulation of cell migration, inhibition of the beta-catenin pathway and receptor binding. Glycosylation is necessary for secretion but not for activity.
Cellular localization	Secreted > extracellular space > extracellular matrix.
Images	



15% SDS-PAGE analysis of ab204627 under reducing conditions and stained with Coomassie blue.

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

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