

Product datasheet

Recombinant Human Wnt5a protein (His tag) ab236199

1 Image

Description

Product name	Recombinant Human Wnt5a protein (His tag)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P41221</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>IIGAQPLCSQLAGLSQGGQKKLCHLYQDHMQYIGEGAKTGIK ECQYQFRHR RWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVNNAM SRACREGELST CGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDA RERERIHAKGSY ESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLK TCWLQLADFRK VGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLV YIDPSPDYCVR NESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKT VQTERCHCKFHW CCYVKCKKCTEMDQFVCK</p>
Predicted molecular weight	40 kDa including tags
Amino acids	62 to 380
Tags	His tag N-Terminus
Additional sequence information	This product is the mature full length protein from aa 62 to 380. The signal peptide and propeptide are not included.

Specifications

Our **Abpromise guarantee** covers the use of **ab236199** 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 Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
pH: 7.2
Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

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).

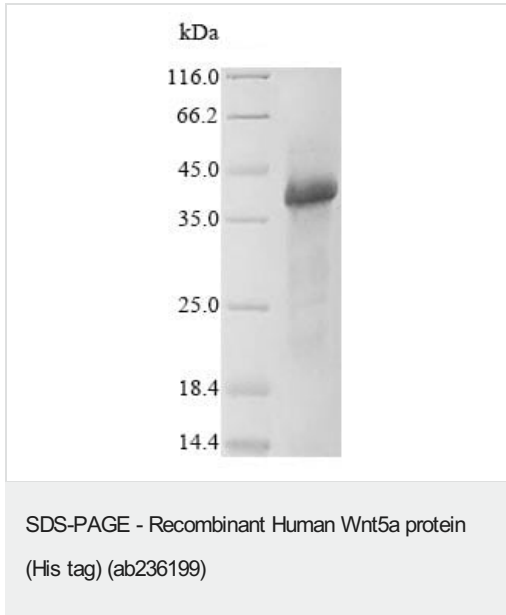
Sequence similarities Belongs to the Wnt family.

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



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab236199.

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

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