

Wingless Type MMTV Integration Site Family, Member 16 Active Protein | WNT16 active protein

Active Wingless Type MMTV Integration Site Family, Member 16 (WNT16)

CATALOG #
AAA150149

APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

Wingless Type MMTV Integration Site Family; Member 16; Active Wingless Type MMTV Integration Site Family; Member 16 (WNT16); WNT16 active protein

PRODUCT SPECIFICATIONS

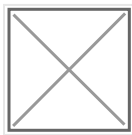
Purity/Purification	>95%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Asn30~Lys365
Sequence Length	355
Applicable Applications for WNT16 active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	8.6
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Bioactivity

Wingless-type MMTV integration site family, member 16 is a protein that in humans is encoded by the WNT16 gene. The WNT gene family consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It contains two transcript variants diverging at the 5 termini. These two variants are proposed to be the products of separate promoters and not to be splice variants from a single promoter. Besides, Tubulin Beta 3 (TUBb3) has been identified as an interactor of WNT16, thus a binding ELISA assay was conducted to detect the interaction of recombinant human WNT16 and recombinant human TUBb3. Briefly, WNT16 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100L were then transferred to TUBb3-coated microtiter wells and incubated for 2h at 37. Wells were washed with PBST and incubated for 1h with anti-WNT16 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of WNT16 and TUBb3 was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of WNT16 with TUBb3.



SDS-PAGE

Figure. SDS-PAGE



WB (Western Blot)

Figure. Western Blot

ADDITIONAL INFORMATION

Product Categories/Family for WNT16 active protein	Signal transduction
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NCBI AND UNIPROT INFORMATION

NCBI GI #	17402914
NCBI GeneID	51384
NCBI Accession #	NP_057171.2
NCBI GenBank Nucleotide #	NP_057171.2
UniProt Accession #	Q9UBV4
Molecular Weight	Predicted Molecular Mass: 70.0kDa Accurate Molecular Mass: 70kDa
NCBI Official Full Name	protein Wnt-16 isoform 2
NCBI Official Synonym Full Names	Wnt family member 16
NCBI Official Symbol	WNT16
NCBI Protein Information	protein Wnt-16
UniProt Protein Name	Protein Wnt-16
UniProt Gene Name	WNT16
UniProt Entry Name	WNT16_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/wnt16-active-protein/wingless-type-mmtv-integration-site-family-member-16/150149>