abcam

Product datasheet

Recombinant human TWSG1/TSG protein ab50231

Description

Product name	Recombinant human TWSG1/TSG protein
Biological activity	Determined by its ability to neutralize BMP-6-induced alkaline phosphatase production by ATDC chondrogenic cells. The expected ED_{50} for this effect is ≤ 2.0 µg/ml of TSG.
Purity	> 98 % SDS-PAGE. Greater than 98% by HPLC analyses.
Expression system	Escherichia coli
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	CNKALCASDV SKCLIQELCQ CRPGEGNCSC CKECMLCLGA LWDECCDCVG MCNPRNYSDT PPTSKSTVEE LHEPIPSLFR ALTEGDTQLN WNIVSFPVAE ELSHHENLVS FLETVNQPHH QNVSVPSNNV HAPYSSDKEH MCTVVYFDDC MSIHQCKISC ESMGASKYRW FHNACCECIG PECIDYGSKT VKCMNCMF
Amino acids	26 to 223

Specifications

Our **Abpromise guarantee** covers the use of **ab50231** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Lyophilized
Additional notes	This product was previously labelled as TWSG1

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4oC for 1 week or -20oC for future use

General Info

Function	May be involved in dorsoventral axis formation. Seems to antagonize BMP signaling by forming ternary complexes with CHRD and BMPs, thereby preventing BMPs from binding to their receptors. In addition to the anti-BMP function, also has pro-BMP activity, partly mediated by cleavage and degradation of CHRD, which releases BMPs from ternary complexes. May be an important modulator of BMP-regulated cartilage development and chondrocyte differentiation. May play a role in thymocyte development.
Sequence similarities	Belongs to the twisted gastrulation protein family.
Developmental stage	Expressed in brain throughout development.
Domain	The N-terminal domain is sufficient to interact with BMP4.
Cellular localization	Secreted.

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