Datasheet for ABIN7505505

ANG2 Protein (AA 19-204) (His tag)

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Overview

Quantity:	100 µg
Target:	ANG2
Protein Characteristics:	AA 19-204
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANG2 protein is labelled with His tag.

Product Details

Sequence:	Tyr 19-Val 204
Characteristics:	A DNA sequence encoding the Rat ANG2 protein (O35462) (Tyr 19-Val 204) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	ANG2
Alternative Name:	ANG2 (ANG2 Products)
Background:	Abbreviation: ANG2 Target Synonym: AGPT2,ANG2,ANG-2,angiopoietin 2,Angiopoietin-2,angiopoietin-2a,angiopoietin-2B,angiopoitin 2,ANGPT2,Tie2-ligand Background: Angiopoietin-2 (Ang-2, also ANGPT2) is a secreted glycoprotein that plays a

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Target Details

	complex role in angiogenesis and inflammation. Both Ang-2 and the related Angiopoietin-1 (Ang-1) are ligands for the receptor tyrosine kinase Tie-2. While Ang-1 is a potent Tie 2 agonist, Ang-2 may act as either a Tie-2 antagonist or agonist, depending upon its state of multimerization. The higher the order of oligomer, the more effective Ang-2 becomes as a Tie-2 agonist. The short isoform appears to block the binding of either Ang-1 or full-length Ang-2 to Tie-2. Ang-2 functions as a pro-angiogenic factor, although it can also induce EC death and vessel regression. Upon its release from quiescent EC, it regulates vascular remodeling by promoting EC survival, proliferation, and migration and destabilizing the interaction between EC and perivascular cells. In addition, ANG-2 is strongly expressed in the vasculature of many tumors and it has been suggested that ANG-2 may act synergistically with other cytokines such as vascular endothelial growth factor to promote tumor-associated Angiogenesis and tumor progression.
Molecular Weight:	Calculated MW: 20.35 kDa Observed MW: 30 kDa
UniProt:	O35462
Pathways:	Carbohydrate Homeostasis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months

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