TIE-2 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P73438
Synonyms:	Angiopoietin-1 receptor; CD202b; hTIE2; p140 TEK; Tie2; VMCM
Species:	Rat
Source:	HEK293
Accession:	NP_001099207.1 (A23-L743)
Gene ID:	89804
Molecular Weight:	Approximately 115-130 kDa

PROPERTIES

AA Sequence

A M D L I L I N S L P L V S D A E T S L T C I A S G W H P H E P I T I G R D F E
A L M N Q H Q D P L E V T Q D V T R E W A K K V V W K R E K A S K I N G A Y F C
E G R V R G Q A I R I R T M K M R Q Q A S F L P A T L T M T V D R G D N V N I S
F K K V L I K E E D A V I Y K N G S F I H S V P R H E V P D I L E V H L P H A Q
P Q D A G V Y S A R Y I G G N L F T S A F T R L I V R R C E A Q K W G P D C N R
P C T T C K N N G V C H E D T G E C I C P P G F M G R T C E K A C E P H T F G R
T C K E R C S G S E G C K S Y V F C L P D P Y G C S C A T G W R G L Q C N E A C
P Y G H Y G P D C K L R C H C T N E E M C D R F Q G C L C S Q G W Q G L Q C E K
E G R P R M T P Q I E D L P D H I E V N S G K F N P I C K A S G W P L P T S E E
M T L V K P D G T V L Q P N D F N H T D H F S V A I F T V N R I L P P D S G V W
V C S V N T V A G M V E K P F N I S V K V L P E P L H A P N V I D T G H N F A I
I N I S S E P Y F G D G P I K S K K L F Y K P V N Q A W K Y I Q V M N E I V T L
N Y L E P R T D Y E L C V Q L V R P G E G G E G H P G P V R R F T T A S I G L P
P P R G L S L L P K S Q T A L N L T W Q P I F T S S E D E F Y V E V E R W S Q Q
T R S D Q Q N I K V P G N L T S V L L N N L L P R E Q Y S V R A R V N T K A Q G
E W S E E L R A W T L S D I L P P Q P E N I K I T N I T D Y T A L V S W T I V D
G Y S I S S I I I R Y K V Q G K N E D Q H I D V K I K N A T I T Q Y Q L K G L E
P E T T Y H V D I F A E N N I G S S N P A F S Q E I R T L P A P K D L G G G K M
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Biological Activity	Immobilized Rat Tie-2 at 1 μg/mL (100 μL/well) can bind Biotinylated Angiopoietin-2. The ED_{50} for this effect is 22.89 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	TIE-2 Protein possesses growth factor binding activity and is involved in various processes, including endochondral ossification, response to cAMP, and response to estrogen. It is predicted to be located in diverse cellular components such as basolateral plasma membrane, centriolar satellite, and microvillus, and is expected to be an integral component of the plasma membrane and part of a receptor complex. The predicted colocalization with actin filament and stress fiber suggests its potential involvement in cytoskeletal dynamics. Notably, TIE-2 serves as a biomarker for several diseases, including acute kidney tubular necrosis, brain ischemia, gastric ulcer, goiter, and hepatocellular carcinoma. The human ortholog(s) of this gene have been implicated in arteriovenous malformation and multiple cutaneous and mucosal venous malformations. The expression of TIE-2 is biased, with prominent levels observed in lung (RPKM 772.5), heart (RPKM 237.7), and various other tissues.

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