DDR2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72673
Synonyms:	Discoidin domain-containing receptor 2; CD167b; Ddr2; Ntrkr3; Tkt; Tyro10
Species:	Mouse
Source:	HEK293
Accession:	Q62371 (Q24-R399)
Gene ID:	18214
Molecular Weight:	60-75 kDa

PROPERTIES

AA Sequence	Q V N P A I C R Y P L G M S G G H I P D E D I T A S S Q W S E S T A A K Y G R L D S E E G D G A W C P E I P V Q P D D L K E F L Q I D L R T L H F I T L V G T Q G R H A G G H G I E F A P M Y K I N Y S R D G S R W I S W R N R H G K Q V L D G N S N P Y D V F L K D L E P P I V A R F V R L I P V T D H S M N V C M R V E L Y G C V W L D G L V S Y N A P A G Q Q F V L P G G S I I Y L N D S V Y D G A V G Y S M T E G L G Q L T D G V S G L D D F T Q T H E Y H V W P G Y D Y V G W R N E S A T N G F I E I M F E F D R I R N F T T M K V H C N N M F A K G V K I F K E V Q C Y F R S E A S E W E P T A V Y F P L V L D D V N P S A R F V T V P L H H R M A S A I K C Q Y H F A D T W M M F S E I T F Q S D A A M Y N N S G A L P T S P M A P T T Y D P M L K V D D S N T R
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
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	DDR2 protein serves as a tyrosine kinase functioning as a cell surface receptor for fibrillar collagen, pivotal in regulating cell differentiation, extracellular matrix remodeling, cell migration, and cell proliferation. Its role is essential for normal bone development, influencing osteoblast differentiation and chondrocyte maturation through a signaling pathway involving MAP kinases, ultimately activating the transcription factor RUNX2. DDR2 also plays a crucial part in extracellular matrix remodeling by up-regulating collagenases MMP1, MMP2, and MMP13, facilitating cell migration and promoting tumor cell invasion. Additionally, DDR2 promotes fibroblast migration and proliferation, contributing significantly to the process of cutaneous wound healing. The multifaceted functions of DDR2 underscore its importance in diverse cellular processes associated with tissue development, maintenance, and repair.

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