CMG-2/ANTXR2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76153
Synonyms:	Anthrax toxin receptor 2; Capillary morphogenesis gene 2 protein; CMG-2; ANTXR2
Species:	Mouse
Source:	HEK293
Accession:	Q6DFX2 (Q32-G318)
Gene ID:	71914
Molecular Weight:	Approximately 32 kDa.

PROPERTIES

AA Sequence	Q A Q E Q P S C K K A F D L Y F V L D K S G S V A N N W I E I Y N F V H Q L T E R F V S P E M R L S F I V F S S Q A T I I L P L T G D R Y K I G K G L E D L K A V K P V G E T Y I H E G L K L A N E Q I Q N A G G L K A S S I I I A L T D G K L D G L V P S Y A E N E A K K S R S L G A S V Y C V G V L D F E Q A Q L E R I A D S K D Q V F P V K G G F Q A L K G I I N S I L A Q S C T E I L E L S P S S V C V G E K F Q V V L T G R A V T S I S H D G S V L C T F T A N S T Y T K S E K P V S I Q P S S I L C P A P V L N K D G E T L E V S I S Y N D G K S A V S R S L T I T A T E C T N G
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized anthrax protective antigen (PA) at 1.5 μg/mL can bind Mouse CMG-2. The ED_{50} for this effect is 1.329 μg/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	CMG-2/ANTXR2 protein is indispensable for cellular interactions with laminin and the extracellular matrix, indicating its

pivotal role in mediating adhesion and communication between cells and their surrounding environment. This protein exhibits a specific binding affinity for laminin, emphasizing its involvement in the regulation of laminin-dependent cellular processes. Furthermore, there is a suggestion of potential interaction with collagen type IV, broadening its scope of engagement with key components of the extracellular matrix. The capacity of CMG-2/ANTXR2 to bind to laminin and possibly collagen type IV underscores its significance in cellular adhesion and matrix-related functions, contributing to the intricate framework of cellular interactions within tissues.

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