

MXRA8 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P700877
Synonyms:	Adipocyte-specific protein 3; Adipocyte-specific 3; DICAM; Asp3; Limitrin
Species:	Mouse
Source:	HEK293
Accession:	Q9DBV4 (V20-Q340)
Gene ID:	74761
Molecular Weight:	42-52 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	<p>MXRA8, a transmembrane protein, intricately modulates various signaling pathways, potentially through its interaction with integrin ITGAV:ITGB3. Functionally, MXRA8 mediates heterophilic cell-cell interactions and inhibits osteoclastogenesis downstream of TNFSF11/RANKL and CSF1. This inhibitory effect is suggested to occur by attenuating signaling via integrin ITGB3 and MAP kinase p38. Moreover, MXRA8 plays a crucial role in cartilage formation, promoting the proliferation and maturation of growth plate chondrocytes, stimulating the formation of primary cilia, and enhancing the expression of genes involved in the hedgehog signaling pathway. In angiogenesis, MXRA8 exhibits a dual role by suppressing endothelial cell migration and promoting apoptosis, along with inhibiting VEGF-induced activation of AKT and p38 MAP kinase. Additionally, MXRA8 interferes with VTN-mediated integrin ITGAV:ITGB3 signaling and PTK2/FAK activation. Its involvement extends to the maturation and maintenance of the blood-brain barrier. MXRA8 forms homodimers in cis, and its interaction with ITGB3 inhibits the formation of ITGAV:ITGB3 heterodimers. These diverse functions underscore the multifaceted regulatory role of MXRA8 in cellular processes and tissue homeostasis.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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