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Product datasheet for TP516521

Mxra8 (NM_024263) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse matrix-remodelling associated 8 (Mxra8), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR216521 representing NM_024263 Red=Cloning site Green=Tags(s) MELLSRVLLWKLLLLQSSAVLSSGPSGTAAASSSLVSESVVSLAAGTQAVLRCQSPRMVWTQDRLHDRQR VVHWDLSGGPGSQRRRLVDMYSAGEQRVYEPRDRDRLLLSPSAFHDGNFSLLIRAVDRGDEGVYTCNLHH HYCHLDESLAVRLEVTEDPLLSRAYWDGEKEVLVVAHGAPALMTCINRAHVWTDRHLEEAQQVVHWDRQL PGVSHDRADRLLDLYASGERRAYGPPFLRDRVSVNTNAFARGDFSLRIDELERADEGIYSCHLHHHYCGL HERRVFHLQVTEPAFEPPARASPGNGSGHSSAPSPDPTLTRGHSIINVIVPEDHTHFFQQLGYVLATLLL FILLLITVVLATRYRHSGGCKTSDKKAGKSKGKDVNMVEFAVATRDQAPYRTEDIQLDYKNNILKERAEL AHSPLPAKDVDLDKEFRKEYCK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	50.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_077225
Locus ID:	74761

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UniProt ID: Q9DBV4

RefSeq Size: 2280

Cytogenetics: 4 87.58 cM

RefSeq ORF: 1326

Synonyms: 1200013A08Rik; 1700095D18Rik; AI131686; Asp3; Dicam

Summary: Transmembrane protein which can modulate activity of various signaling pathways, probably via binding to integrin ITGAV:ITGB3 (PubMed:18366072, PubMed:22492581, PubMed:29702220). Mediates heterophilic cell-cell interactions in vitro (PubMed:18366072). Inhibits osteoclastogenesis downstream of TNFSF11/RANKL and CSF1, where it may function by attenuating signaling via integrin ITGB3 and MAP kinase p38 (PubMed:22492581). Plays a role in cartilage formation where it promotes proliferation and maturation of growth plate chondrocytes (PubMed:29702220). Stimulates formation of primary cilia in chondrocytes (PubMed:29702220). Enhances expression of genes involved in the hedgehog signaling pathway in chondrocytes, including the hedgehog signaling molecule IHH; may also promote signaling via the PTHLH/PTHrP pathway (PubMed:29702220). Plays a role in angiogenesis where it suppresses migration of endothelial cells and also promotes their apoptosis (By similarity). Inhibits VEGF-induced activation of AKT and p38 MAP kinase in endothelial cells (By similarity). Also inhibits VTN (vitronectin)-mediated integrin ITGAV:ITGB3 signaling and activation of PTK2/FAK (By similarity). May play a role in the maturation and maintenance of the blood-brain barrier (PubMed:14603461).[UniProtKB/Swiss-Prot Function]