

Product datasheet for TP525166

Tnr (NM_022312) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse tenascin R (Tnr), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species: Mouse
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >MR225166 representing NM_022312
Red=Cloning site Green=Tags(s)

MGIDGETVVLKNNMLIGVNLILLGSMKLPSECRLEVTTERRAQRQTVEEEGGASSYNTSSKEQPMVFNHVYN
 INVPLESLCSSLGLEASAEQDMSAEDDTLAEYIGQTSDHESQVTFTHKINLPKACPCASSQVLQELLSR
 IEMLEREVSLLRDQCNTNCCQESAATGQLDYVPHCSGHGNFSFESCGCICNEGWFGKNCSEPYCPLGCCS
 RGVCVDGQCICDSEYSGDDCSELRCPTDCSSRGLCVDGECVCEPYTGEDCRELRCPGDCSGKGCANGT
 CLCQEGYAGEDCSQRRCLNACSGRGHCQEGLCICEEGYQGPDCSAVAPPEDLRVAGISDRSIELEWDGPM
 AVTEYVISYQPTALGGLQLQQRVPGDWSGVTIMELEPGLTYNISVYAVISNILSLPITAKVATHLSTPQG
 LQFKTITETTVEVQWEPFSFSDGWEIFPKNNEGGVIAQLPSDVTSFNQTGLKPGEEYIVNVVALKEQ
 ARSPPTSASVSTVIDGPTQILVRDVSDTVAFVEWTPPRAKVDIFILLKYGLVGGEGGKTFRLQPPLSQYS
 VQALRPGSRYEVSISAVRGTNESEASSTQFTEIDAPKNLRVGSRTATSLDLEWDNSEAQAQYKVVYST
 LAGEQYHEVLVPGKIGIPPTKTTLDLVPGTEYGVGISAVMNSKQSIPATMNARTELDSPRDLMTASSET
 SISLIWTKASGPIDHYRITFTPSSGISSEVTVPRDRTSYLTLDLEPGAIEYISITAERGRQQSLESTVDA
 FTGFRPISHLHFSHVTSSSVNITWSDPSPPADRLILNYSRDKEDMLEVLLDATKRHAVLMGLQPATEY
 IVNLVAVHGTVTSEPIVGSITTGIDPPKNITISNVTKDSLTVSWSSPVAPFDYYRVSYPRTQVGRDSSV
 VPNTVTEFAITRLYPATEYEISLNSVRGREESERICLVHTAMDSPMDLIATNITPTEALLQWKAPMGEV
 ENYVIVLTHFAIAGETILVDGVSEEFQLVDLLPSTHYVTMYATSGPLMSGTIATNFSTLLDPPDNLTA
 EVTRQSALISWQPPRAAIENYVLTYSKTDGSRKELIVDAEDTWIRLEGLSENTDYTVLLQAAQEAETRSSL
 TSTVFTTGGRVFSHPQDCAQHLMNGDTLSGVYTIFLNGELSHKLQVYCDMTDGGGWVWFQRRQNGQTF
 FRKWADYRVGFGNLEDEFWLGLDNIHRITAQGRYELRVDMRDGQEAFFAYYDKFAVEDSRSLYKIRIGSY
 NGTAGDSLQYHGRPFSTEDRDNDVAVTNCAMSYKGAWWYKNCHRTNLNGKYGESRHSQGINWYHWKGHE
 FSIPFVEMKMRPYIHRLTAGRKRALKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 150 kDa



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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:	<u>NP_071707</u>
Locus ID:	21960
UniProt ID:	<u>Q8BYI9</u>
RefSeq Size:	5395
Cytogenetics:	1 H1
RefSeq ORF:	4074
Synonyms:	J1-tenascin; janusin; restrictin; TN-R
Summary:	Neural extracellular matrix (ECM) protein involved in interactions with different cells and matrix components. These interactions can influence cellular behavior by either evoking a stable adhesion and differentiation, or repulsion and inhibition of neurite growth. Binding to cell surface gangliosides inhibits RGD-dependent integrin-mediated cell adhesion and results in an inhibition of PTK2/FAK1 (FAK) phosphorylation and cell detachment. Binding to membrane surface sulfatides results in a oligodendrocyte adhesion and differentiation. Interaction with CNTN1 induces a repulsion of neurons and an inhibition of neurite outgrowth. Interacts with SCN2B may play a crucial role in clustering and regulation of activity of sodium channels at nodes of Ranvier. TNR-linked chondroitin sulfate glycosaminoglycans are involved in the interaction with FN1 and mediates inhibition of cell adhesion and neurite outgrowth. The highly regulated addition of sulfated carbohydrate structure may modulate the adhesive properties of TNR over the course of development and during synapse maintenance (By similarity).[UniProtKB/Swiss-Prot Function]