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Product datasheet for TP503226

Pagr1a (NM_030240) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse PAXIP1 associated glutamate rich protein 1A (Pagr1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR203226 protein sequence Red=Cloning site Green=Tags(s) MSLALGHGTIAGSTAAPLSEEGEVTSGLQALAVEDTGGPSVSASKAEEEGKGSQEEAGREGSRPEEALEA PSAASDERAEGEAEDWCVPCSDEEVELPANGQSWMPPPSEIQRLYELLATQGTLELQAEILPRRPPTPEA QSEEERSDEEPEAKEEEEEKPHMPTEFDFDDEPMTPKDSLIDRRRTPGSSARSQKREARLDKVLSDMKRH KKLEEQILRTGRDLFSLDSEGPSPTSPPLRSSGNSLFPRQRKY TRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Tag:	C-MYC/DDK
Predicted MW:	27.7 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_084516
Locus ID:	67278
UniProt ID:	Q99L02
RefSeq Size:	1448

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Cytogenetics:	7 F3
RefSeq ORF:	762
Synonyms:	2900092E17Rik; C77040; PA1; PAGR1
Summary:	Its association with the histone methyltransferase MLL2/MLL3 complex is suggesting a role in epigenetic transcriptional activation. However, in association with PAXIP1/PTIP is proposed to function at least in part independently of the MLL2/MLL3 complex. Proposed to be recruited by PAXIP1 to sites of DNA damage where the PAGR1:PAXIP1 complex is required for cell survival in response to DNA damage independently of the MLL2/MLL3 complex (PubMed:19124460). However, its function in DNA damage has been questioned (PubMed:26744420). During immunoglobulin class switching in activated B-cells is involved in transcription regulation of downstream switch regions at the immunoglobulin heavy-chain (Igh) locus independently of the MLL2/MLL3 complex (PubMed:26744420). Involved in both estrogen receptor-regulated gene transcription and estrogen-stimulated G1/S cell-cycle transition (By similarity). Acts as transcriptional cofactor for nuclear hormone receptors. Inhibits the induction properties of several steroid receptors such as NR3C1, AR and PPARG; the mechanism of inhibition appears to be gene-dependent (By similarity). May be involved in the regulation of the BMP pathway in extraembryonic development (PubMed:24633704). [UniProtKB/Swiss-Prot Function]