

Product datasheet for TP305868L

CASTOR1 (NM_001037666) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Recombinant protein of human hypothetical protein LOC652968 (LOC652968), 1 mg **Description:** Species: Human HEK293T **Expression Host:** Expression cDNA Clone >RC205868 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s) MELHILEHRVRVLSVARPGLWLYTHPLIKLLFLPRRSRCKFFSLTETPEDYTLMVDEEGFKELPPSEFLO VAEATWLVLNVSSHSGAAVQAAGVTKIARSVIAPLAEHHVSVLMLSTYQTDFILVREQDLSVVIHTLAQE FDIYREVGGEPVPVTRDDSSNGFPRTQHGPSPTVHPIQSPQNRFCVLTLDPETLPAIATTLIDVLFYSHS TPKEAASSSPEPSSITFFAFSLIEGYISIVMDAETQKKFPSDLLLTSSSGELWRMVRIGGQPLGFDECGI VAQIAGPLAAADISAYYISTFNFDHALVPEDGIGSVIEVLQRRQEGLAS **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** C-Myc/DDK Tag: Predicted MW: 36.1 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 Recombinant protein was captured through anti-DDK affinity column followed by **Preparation:** conventional chromatography steps. Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Store at -80°C. Storage: 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 001032755 Locus ID: 652968



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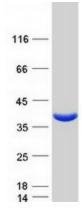
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	CASTOR1 (NM_001037666) Human Recombinant Protein – TP305868L
UniProt ID:	<u>Q8WTX7</u>
RefSeq Size:	1644
Cytogenetics:	22q12.2
RefSeq ORF:	987
Synonyms:	GATSL3
Summary:	Functions as an intracellular arginine sensor within the amino acid-sensing branch of the TORC1 signaling pathway. As a homodimer or a heterodimer with CASTOR2, binds and inhibits the GATOR subcomplex GATOR2 and thereby mTORC1. Binding of arginine to CASTOR1 allosterically disrupts the interaction of CASTOR1-containing dimers with GATOR2 which can in turn activate mTORC1 and the TORC1 signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:

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Coomassie blue staining of purified CASTOR1 protein (Cat# [TP305868]). The protein was produced from HEK293T cells transfected with CASTOR1 cDNA clone (Cat# [RC205868]) using MegaTran 2.0 (Cat# [TT210002]).

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