OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA328731

Rabbit Monoclonal Antibody

Product data:

Product Type:	Primary Antibodies
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Monoclonal
Immunogen:	Peptide EPFPSAVTIKSWVDK(C), corresponding to amino acid residues 27-41 of rabbit a2d1 precursor).Extracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Background:	The a2d1 protein is an auxiliary subunit of the CaV (voltage dependent calcium) channel multimer complex. Four a2d isoforms were identified in mammalian genoms and they share some sequence as well as structure homology. The protein product of the gene encoding a2d is complex, it includes two seperated proteins the extracellular a2 linked by disulphide bridges to the membrane sppaning (single transmembrane helix) d subunit. a2d1 subunit is highly expressed in skeletal muscle and brain. Its expression along with a pore forming CaV a1 subunit, result in larger CaV currents, probably due to improoved trafficing of the a1 subunit to the plasma membrane. a2d1 subunit was shown to be the target of the antiepileptic and anelgestic drug gabapentin.

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