

Recombinant

DGRmAb®

**CACNA1A (DGR31355) Rabbit mAb (PBS Only)**

db16079-PBS

Package : 10µg 100µg

**Product Name** : CACNA1A (DGR31355) Rabbit mAb (PBS Only)**Cat.No.:** db16079-PBS**Synonyms** : BI; EA2; FHM; MHP; APCA; HPCA; MHP1; SCA6; DEE42; CAV2.1; EIEE42; CACNL1A4**Application** : WB**Reactivity** : Human,Mouse,Rat**Host species** : Rabbit**Background**

Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Calcium channels are multisubunit complexes composed of alpha-1, beta, alpha-2/delta, and gamma subunits. The channel activity is directed by the pore-forming alpha-1 subunit, whereas, the others act as auxiliary subunits regulating this activity. The distinctive properties of the calcium channel types are related primarily to the expression of a variety of alpha-1 isoforms, alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1A subunit, which is predominantly expressed in neuronal tissue. Mutations in this gene are associated with 2 neurologic disorders, familial hemiplegic migraine and episodic ataxia 2. This gene also exhibits polymorphic variation due to (CAG)n-repeats. Multiple transcript variants encoding different isoforms have been found for this gene. In one set of transcript variants, the (CAG)n-repeats occur in the 3' UTR, and are not associated with any disease. But in another set of variants, an insertion extends the coding region to include the (CAG)n-repeats which encode a polyglutamine tract. Expansion of the (CAG)n-repeats from the normal 4-18 to 21-33 in the coding region is associated with spinocerebellar ataxia 6. [provided by RefSeq, Jul 2016]

**Immunogen**

A synthetic peptide of human CACNA1A

**Gene ID**

773, 12286, 25398

**Swiss Prot**

O00555, P97445, P54282

**Synonyms**

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**Reactivity**

Human,Mouse,Rat

**Application**

WB

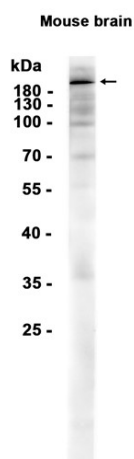
**Calculated MW**

283 kDa

**Observed MW**

283 kDa

<b>Host species</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Clonality No.</b>	DGR31355
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity Purification
<b>Conjugation</b>	Un-conjugated
<b>Concentration</b>	1 mg/mL
<b>Formulation</b>	PBS Only
<b>Storage Stability</b>	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



Western blot analysis of extracts from Mouse brain tissue using [db16079](#) at 1:1000.