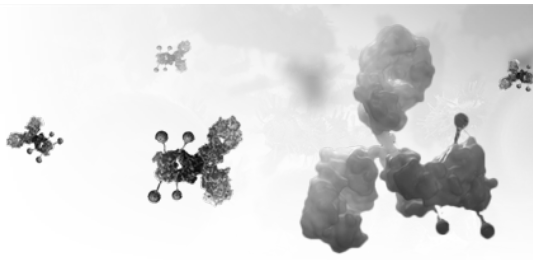

Mouse anti-Rat Glutamate Receptor monoclonal antibody, clone 7D5 (CABT-B9211)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	GluR2 aa.175-430 trpE Recombinant Fusion
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Rat, Monkey, Dog
Clone	7D5
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	IHC; WB; EM; RIA
Format	Liquid
Concentration	0.5 mg/ml
Size	100 µg
Buffer	Aqueous buffered solution containing ≤0.09% sodium azide.
Storage	Store undiluted at 4°C.

BACKGROUND

Introduction	Glutamate is a major excitatory neurotransmitter in mammalian brain. Glutametergic

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	neurotransmission is mediated by a family of glutamate receptors which can be grouped in two classes, ionotropic (GluR) and metabotropic (mGluR) receptors. The ionotropic GluRs can be divided into two subclasses, N-methyl-D-Aspartate (NMDA) and non-NMDA receptors. Five different forms of NMDA receptors (NMDAR1, R2A, R2B, R2C, and R2D) have been isolated. NMDAR1 is always required for the formation of functional NMDA receptors. Non-NMDA receptors can be divided into at least two subtypes, AMPA receptors which bind to methyl-4-isoxazole proprionic acid (AMPA) and kainate binding (KA or kainic acid) receptors. Multiple subunits appear to comprise the family of non-NMDA receptors. GluR1-4 receptors (also known as GluR-A, B, C, and D) preferentially bind to AMPA. KA receptors consist of five subunits: GluR5, 6, 7, KA-1, and KA-2. Functional receptors are formed by various combinations of these subunits and multiple forms of GluR are expressed in the same populations of neurons. GluR2 migrates at a molecular weight of ~102 kDa in SDS-PAGE.
Keywords	GRIN1; glutamate receptor, ionotropic, N-methyl D-aspartate 1; NR1; MRD8; GluN1; NMDA1; NMDAR1; glutamate receptor ionotropic, NMDA 1; NMD-R1; glutamate [NMDA] receptor subunit zeta 1

GENE INFORMATION

Entrez Gene ID	24408
UniProt ID	P35439

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