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# Human GluR7/GRIK3 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2914A Catalog Number: MAB113281

## **R**Dsystems

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human GluR7/GRIK3 in direct ELISA.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 2914A		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Human embryonic kidney cell, HEK293-derived human GluR7/GRIK3 Gly249-Met1 Accession # Q13003		
Formulation	Lvophilized from a 0.2 um filtered solution in PBS with Trehalose.		

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 µg/10 <sup>6</sup> cells	CHO cells transfected with hGRIK3 vs irrelevant
		CHO transfectant cells



#### BACKGROUND

GluR7 is a receptor for glutamate. Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain. This gene can co-assemble with GRIK4 or GRIK5 to form heteromeric receptors. GluR7 is one of the five subtypes of kainate receptors. Kainate receptors are widely expressed in the CNS and are involved in the regulation of transmitter release, synapse formation, and in the pathophysiology of brain diseases. Genetic variants in the GluR7 gene are associated with schizophrenia, major depression, and bipolar disorder.

#### References:

- 1. Entrez Gene: GRIK3 glutamate receptor, ionotropic, kainate 3.
- 2. Matute C. "Therapeutic Potential of Kainate Receptors". CNS Neuroscience & Therapeutics. 2011 Dec; 17(6):661.
- 3. Begni S, Popoli M, Moraschi S, Bignotti S, Tura G.B, Gennarelli M., "Association Between the Ionotropic Glutamate Receptor Kainate 3 (GRI3) Ser310Ala Polymorphism and Schizophrenia". Mol Psychiatry. 2002; **7(4)**:416.

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