



# SYGP1 Polyclonal Antibody

<b>Catalog No</b>	BYab-06911
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	SYNGAP1 KIAA1938
<b>Protein Name</b>	Ras GTPase-activating protein SynGAP (Neuronal RasGAP) (Synaptic Ras GTPase-activating protein 1) (Synaptic Ras-GAP 1)
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	SYGP1 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	147kD
<b>Cell Pathway</b>	cytoplasm,cytosol,postsynaptic density,intrinsic component of the cytoplasmic side of the plasma membrane,dendritic shaft,
<b>Tissue Specificity</b>	Amygdala,Brain,
<b>Function</b>	alternative products:Additional isoforms seem to exist,caution:It is uncertain whether Met-1 or Met-16 is the initiator methionine.,disease:Defects in SYNGAP1 are the cause of mental retardation autosomal dominant type 5 (MRD5) [MIM:612621]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptive behavior and manifested during the developmental period. MRD5 patients show global developmental delay with delayed motor development, hypotonia, moderate-to-severe mental retardation, and severe language impairment.,function:Major constituent of the PSD essential for postsynaptic signaling. Inhibitory regulator of the Ras-cAMP pathway. Member of the NMDAR signaling complex in excitatory synapses, it may play a role in NMDAR-dependent

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control of AMPAR potentiation, AMPAR membrane trafficking and synaptic plasticity

**Background**

The protein encoded by this gene is a major component of the postsynaptic density (PSD), a group of proteins found associated with NMDA receptors at synapses. The encoded protein is phosphorylated by calmodulin-dependent protein kinase II and dephosphorylated by NMDA receptor activation. Defects in this gene are a cause of mental retardation autosomal dominant type 5 (MRD5). [provided by RefSeq, Dec 2009],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**