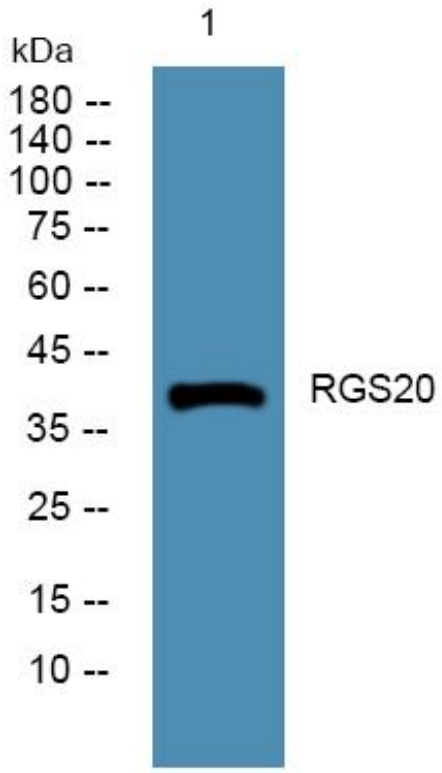
RGS20 Monoclonal Antibody

Catalog No	BYmab-06073
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	RGS20 RGSZ1 ZGAP1
Protein Name	Regulator of G-protein signaling 20 (RGS20) (Gz-selective GTPase-activating protein) (G(z)GAP) (Gz-GAP) (Regulator of G-protein signaling Z1) (Regulator of Gz-selective protein signaling 1)
Immunogen	Synthesized peptide derived from human protein . at AA range: 180-260
Specificity	RGS20 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	42kD
Cell Pathway	Membrane; Lipid-anchor. Nucleus. Cytoplasm. Shuttles between the cytoplasm/cell membrane and the nucleus. Anchored to the membrane through palmitoylation. .
Tissue Specificity	Isoform 5 is expressed in brain at high levels in the caudate nucleus and temporal lobe.
Function	function:Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds selectively to G(z)-alpha and G(alpha)-i2 subunits, accelerates their GTPase activity and regulates their signaling activities. The G(z)-alpha activity is inhibited by the phosphorylation and palmitoylation of the G-protein. Negatively regulates mu-opioid receptor-mediated activation of the G-proteins.,PTM:Fatty acylated. Heavily palmitoylated in the cysteine string motif.,PTM:N- and O-glycosylated in synapsomal membranes.,PTM:Serine phosphorylated in synapsomal membranes.,PTM:Sumoylated by SUMO1 and SUM02 in synaptosomes. The

	sumoylated forms act as a scaffold for sequestering mu-opioid receptor-activated G(alpha) subunits.,similarity:Contains 1 RGS domain.,subcellular location:Shuttles between the cytoplasm/cell membrane and
Background	The protein encoded by this gene belongs to the family of regulator of G protein signaling (RGS) proteins, which are regulatory and structural components of G protein-coupled receptor complexes. RGS proteins inhibit signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound forms. This protein selectively binds to G(z)-alpha and G(alpha)-i2 subunits, and regulates their signaling activities. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011],
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



Western Blot analysis of various cells using RGS20 Monoclonal Antibody