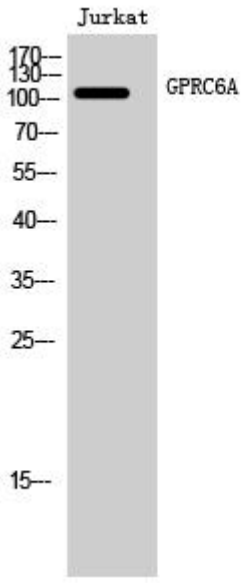
GPRC6A Monoclonal Antibody

Catalog No	YP-mAb-13358
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	GPRC6A
Protein Name	G-protein coupled receptor family C group 6 member A
Immunogen	The antiserum was produced against synthesized peptide derived from human GPRC6A. AA range:471-520
Specificity	GPRC6A Monoclonal Antibody detects endogenous levels of GPRC6A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA 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 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GPRC6A; G-protein coupled receptor family C group 6 member A; hGPRC6A; G-protein coupled receptor GPCR33; hGPCR33
Observed Band	105kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Isoform 1 is expressed at high level in brain, skeletal muscle, testis, bone, calvaria, osteoblasts and leukocytes. Expressed at intermediate level in liver, heart, kidney and spleen. Expressed at low level in lung, pancreas, placenta and ovary. Not detected in thymus, prostate, small intestine, tongue and colon. Isoform 1 and isoform 2 are expressed in kidney at the same level. Isoform 2 is expressed at lower level than isoform 1 in the other tissues.
Function	function:Receptor that is activated by both amino acids and extracellular concentration of calcium ions. The activity of this receptor is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. Senses changes in the extracellular concentration of calcium ions, suggesting that it may mediate extracellular calcium-sensing responses in osteoblasts. Osteocalin, stimulates its activity in presence of calcium. Has a lower affinity for calcium than CASR. Also acts as a receptor for amino acids, with a preference for basic amino acids such as L-Lys, L-Arg and L-ornithine. Its affinity for amino acids suggests that it may act as a regulatory component of the urea cycle.,PTM:N-glycosylated.,similarity:Belongs to the G-protein coupled receptor 3

	family.,subunit:Homodimer; disulfide-linked.,tissue specificity:Widely expressed. Expressed at high level in brain,
Background	Members of family C of the G protein-coupled receptor (GPCR) superfamily, such as GPRC6A, are characterized by an evolutionarily conserved amino acid-sensing motif linked to an intramembranous 7-transmembrane loop region. Several members of GPCR family C, including GPRC6A, also have a long N-terminal domain (summary by Pi et al., 2005 [PubMed 16199532]).[supplied by OMIM, Nov 2010],
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 GPRC6A Monoclonal Antibody