

GPRC6A Polyclonal Antibody

Catalog No :	YT2040
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IF;ELISA
Target :	GPRC6A
Fields :	>>NOD-like receptor signaling pathway
Gene Name :	GPRC6A
Protein Name :	G-protein coupled receptor family C group 6 member A
Human Gene Id :	222545
Human Swiss Prot No :	Q5T6X5
Mouse Swiss Prot No :	Q8K4Z6
Immunogen :	The antiserum was produced against synthesized peptide derived from human GPRC6A. AA range:471-520
Specificity :	GPRC6A Polyclonal Antibody detects endogenous levels of GPRC6A protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 105kD

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],

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. Osteocalcin, 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,

Subcellular Location : Cell membrane ; Multi-pass membrane protein .

Expression : 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.

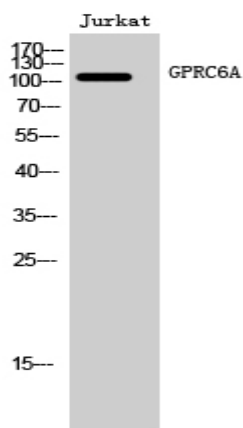
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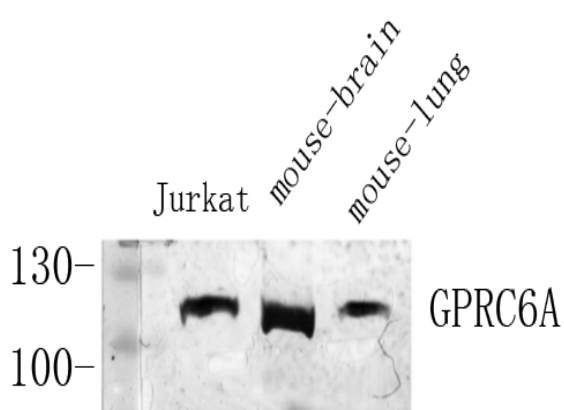
Host : Rabbit

Modifications : Unmodified

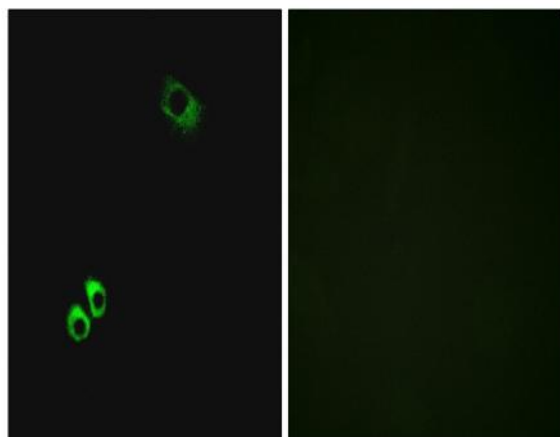
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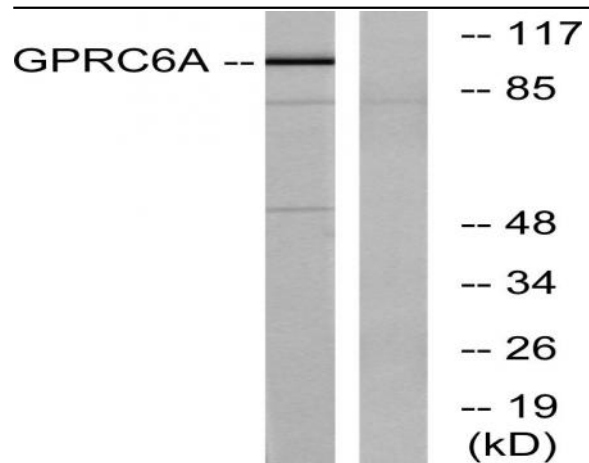
Western Blot analysis of Jurkat cells using GPRC6A Polyclonal Antibody diluted at 1:1000



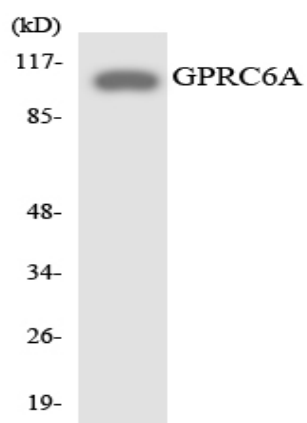
Western Blot analysis of various cells using Antibody diluted at 1:1000. Secondary antibody (catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of MCF7 cells, using GPRC6A Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using GPRC6A Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using GPRC6A antibody.