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GRC5 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54585

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	O75151
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	120775

Additional Information

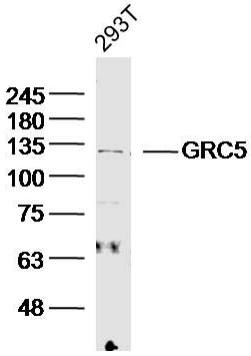
Gene ID	5253
Other Names	Lysine-specific demethylase PHF2, 1.14.11.-, GRC5, PHD finger protein 2, PHF2 (HGNC:8920)
Dilution	WB=1:500-2000,Elisa=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ICC=1:100-500,
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

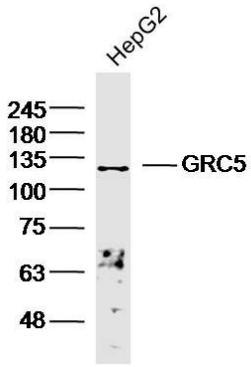
Name	PHF2 (HGNC:8920)
Function	Lysine demethylase that demethylates both histones and non- histone proteins (PubMed:20129925, PubMed:21167174, PubMed:21532585). Enzymatically inactive by itself, and becomes active following phosphorylation by PKA: forms a complex with ARID5B and mediates demethylation of methylated ARID5B (PubMed:21532585). Demethylation of ARID5B leads to target the PHF2-ARID5B complex to target promoters, where PHF2 mediates demethylation of dimethylated 'Lys-9' of histone H3 (H3K9me2), followed by transcription activation of target genes (PubMed:21532585). The PHF2-ARID5B complex acts as a coactivator of HNF4A in liver. PHF2 is recruited to trimethylated 'Lys-4' of histone H3 (H3K4me3) at rDNA promoters and promotes expression of rDNA (PubMed:21532585). Involved in the activation of toll-like receptor 4 (TLR4)-target inflammatory genes in macrophages by catalyzing the demethylation of trimethylated histone H4 lysine 20 (H4K20me3) at the gene promoters (By similarity).
Cellular Location	Nucleus, nucleolus. Chromosome, centromere, kinetochore

Tissue Location	Widely expressed, including in liver (at protein level).

Images



Sample: 293T Cell (Human) Lysate at 30 ug
Primary: Anti- GRC5 (AP54585)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 121kD
Observed band size: 121kD



Sample: HepG2 Cell (Human) Lysate at 30 ug
Primary: Anti- GRC5 (AP54585)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 121kD
Observed band size: 121kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.