



GCN5 Polyclonal Antibody

Catalog No	YP-Ab-01748
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	KAT2A
Immunogen	The antiserum was produced against synthesized peptide derived from human GCN5L2. AA range:691-740
Specificity	GCN5 Polyclonal Antibody detects endogenous levels of GCN5 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	hGCN5;General control of amino acid synthesis protein 5-like 2;GCN5L2;GCN5; EC:2.3.1.48;KAT2A;Histone acetyltransferase KAT2A;Histone acetyltransferase GCN5;HsGCN5;Lysine acetyltransferase 2A;STAF97
Observed Band	100kD
Calculated Molecular Weight	100kD
Cell Pathway	Nucleus . Chromosome . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Mainly localizes to the nucleus (PubMed:27796307). Also localizes to centrosomes in late G1 and around the G1/S transition, coinciding with the onset of centriole formation (PubMed:27796307). .
Tissue Specificity	Expressed in all tissues tested.
Function	somitogenesis, regionalization, chromatin organization, chromatin remodeling, transcription, transcription, DNA-dependent, regulation of transcription, DNA-dependent, regulation of transcription from RNA polymerase II promoter, transcription from RNA polymerase II promoter, protein amino acid acetylation, pattern specification process,embryonic development ending in birth or egg hatching, anterior/posterior pattern formation, chromatin modification,covalent chromatin modification, histone modification, histone acetylation, histone



deubiquitination, protein deubiquitination, RNA biosynthetic process, segmentation, chordate embryonic development, protein amino acid acylation, histone H3 acetylation, regulation of transcription, regulation of RNA metabolic process, chromosome organization, protein modification by small protein removal, protein modification by small protein conjugation or rem

Background

KAT2A, or GCN5, is a histone acetyltransferase (HAT) that functions primarily as a transcriptional activator. It also functions as a repressor of NF-kappa-B (see MIM 164011) by promoting ubiquitination of the NF-kappa-B subunit RELA (MIM 164014) in a HAT-independent manner (Mao et al., 2009 [PubMed 19339690]) .[supplied by OMIM, Sep 2009],

matters needing attention

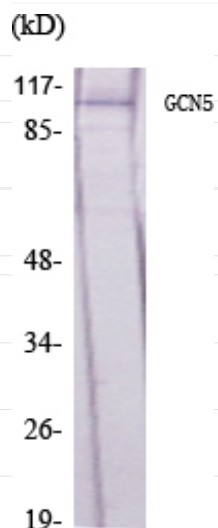
Avoid repeated freezing and thawing!

Usage suggestions

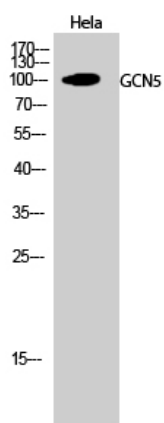
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



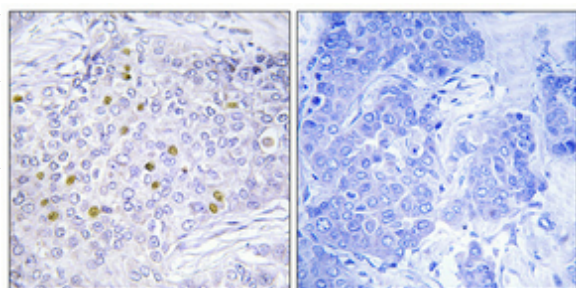
Products Images



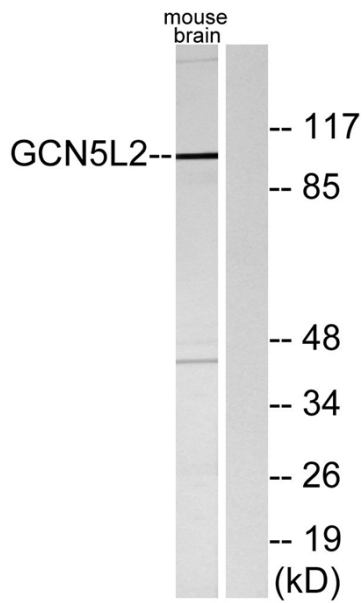
Western Blot analysis of various cells using GCN5 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



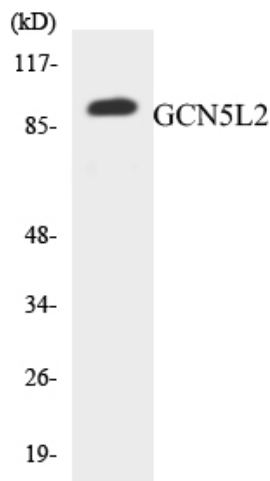
Western Blot analysis of HeLa cells using GCN5 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from mouse brain, using GCN5L2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from RAW264.7 cells using GCN5L2 antibody.