antibodies.com

Datasheet for ABIN755287 anti-KAT2B antibody (AA 451-550)

3 Images



Overview

Quantity:	100 µL
Target:	KAT2B
Binding Specificity:	AA 451-550
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KAT2B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human KAT2B
Isotype:	lgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Pig,Horse,Chicken
Purification:	Purified by Protein A.
Target Details	
Target:	KAT2B

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Alternative Name: Kat2b (KA12B Products) Background: Synonyms: HYRC, p350, DNAPK, DNPK1, HYRC1, IMD26, XRCC7, DNA-PKcs, DNA-dependent protein kinase catalytic subunit, DNA-PK catalytic subunit, p460, PRKDC Background: Serine/Athreonine-protein kinase that acts as a molecular sensor for DNA damage. Involved in DNA non-homologous end joining (NHEJ) required for double-strand break (DSB) repair and V(D) J recombination. Must be bound to DNA to express its catalytic properties. Promotes processing of hairpin DNA structures in V(D) J recombination by activation of the hairpin endoruclease artemis (JCLRE10). The assembly of the DNA-PK complex at DNA ends is also required for the NHEJ ligation step. Required to protect and align broken ends of DNA. May also act as a scaffold protein to aid the localization of DNA repair proteins to the site of damage. Found at the ends of chromosomes, suggesting a further role in the maintenance of telorneric stability and the prevention of chromosomal end fusion. Also involved in modulation of transcription. Recognizes the substrate consensus sequence [ST]-Q. Phosphorylates Ser- 139 of histone variant H2AX/H2AFX, thereby regulating DNA damage response mechanism. Phosphorylates DCLRE1C, c-Abl/ABL1, histone H1. HSPCA, c-jun/JUN, p53/TP53, PARP1, POU2F1, DHX9, SRF, XRCC1, XRCC1, XRCC4, XRCC5, XRCC6, WRN, MYC and RFA2. Can phosphorylate C1D not only in the presence of linear DNA but also in the presence of supercoiled DNA. Ability to phosphorylate p53/TP53 in the presence of supercoiled DNA is dependent on C1D. Contributes to the determination of the circadian period length by antagonizing phosphorylation of CRY1 Ser-S88 and increasing CRY1 protein stability, most likely through an indirect machanism. Interacts with CRY1 and CRY2, negatively regulates CRY1 phosphorylation. Gene ID: 5591	Target Details	
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Application Details Application Notes: WB 1:300-5000 ELISA 1:500-1000	UniProt:	P78527
Application Notes: WB 1:300-5000 ELISA 1:500-1000	Pathways:	p53 Signaling, Regulation of Carbohydrate Metabolic Process
ELISA 1:500-1000	Application Details	
	Application Notes:	WB 1:300-5000
FCM 1:20-100		ELISA 1:500-1000
		FCM 1:20-100

IHC-P 1:200-400

IHC-F 1:100-500

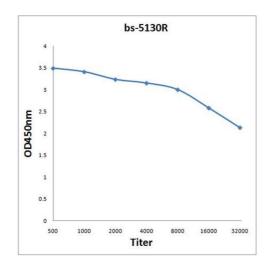
IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200

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Application Details

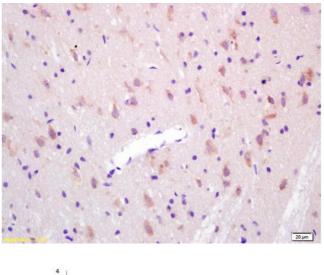
11	
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



ELISA

Image 1. Antigen: 0.2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450



3.5 3 2.5 **OD450nm** 2 1.5 1 0.5 0 500 1000 2000 16000 32000 4000 8000 Titer

Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain labeled with Anti-KAT2B/ GCN5/PCAF Polyclonal Antibody, Unconjugated (ABIN755287) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

ELISA

Image 3. Antigen: 0.2ug/100ul, Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000, TMB staining, Read the data in MicroplateReader by 450nm

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