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anti-PRKAA1 antibody (AA 351-450)

4 Images

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Publications



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Quantity:	100 μL	
Target:	PRKAA1	
Binding Specificity:	AA 351-450	
Reactivity:	Human, Mouse, Rat, Pig, Sheep	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This PRKAA1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))	

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human AMPK alpha 1	
Isotype:	IgG	
Cross-Reactivity:	Human, Mouse, Pig, Rat, Sheep	
Predicted Reactivity:	Dog,Cow,Horse,Chicken	
Purification:	Purified by Protein A.	

Target Details

Target:	PRKAA1	
Alternative Name:	AMPK alpha-1 (PRKAA1 Products)	

Target Details

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Background:	Synonyms: AMPK, AMPKa1, 5'-AMP-activated protein kinase catalytic subunit alpha-1, AMPK	
	subunit alpha-1, Acetyl-CoA carboxylase kinase, ACACA kinase, Hydroxymethylglutaryl-CoA	
	reductase kinase, HMGCR kinase, Tau-protein kinase PRKAA1, PRKAA1, AMPK1	
	Background: The protein encoded by this gene belongs to the ser/thr protein kinase family. It is	
	the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular	
	energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the	
	stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of	
	key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP	
	depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced	
	transcript variants encoding distinct isoforms have been observed. [provided by RefSeq].	
Gene ID:	5562	
UniProt:	Q13131	
Pathways:	AMPK Signaling, Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process,	
	Warburg Effect	
Application Details		
Application Notes:	WB 1:300-5000	
	FCM 1:20-100	
	IHC-P 1:200-400	
	IHC-F 1:100-500	
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

Publications

Product cited in:

Wang, Sun, Han, Li, Ge, Zhao, De Felici, Shen, Cheng: "Protective effects of melatonin against nicotine-induced disorder of mouse early folliculogenesis." in: **Aging**, Vol. 10, Issue 3, pp. 463-480, (2019) (PubMed).

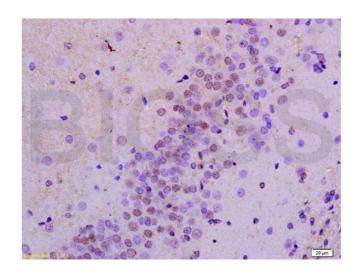
Zhang, Zhao, Zhang, Hao, Yu, Min, Li, Ma, Chen, Yi, Tang, Meng, Liu, Wang, Shen, Zhang: "Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be inheritable." in: **Chemosphere**, Vol. 194, pp. 147-157, (2018) (PubMed).

Zhang, Zhang, Zhou, Fu, Michal, Ji, Du, Davis, Jiang: "Alternative polyadenylation drives genome-to-phenome information detours in the AMPKα1 and AMPKα2 knockout mice." in: **Scientific reports**, Vol. 8, Issue 1, pp. 6462, (2018) (PubMed).

Wang, Zhao, Yu, Feng, Zhang, Kou, Chu, Cui, Li, Zhang, Shen, Min: "Regulation of steroid hormones and energy status with cysteamine and its effect on spermatogenesis." in: **Toxicology and applied pharmacology**, Vol. 313, pp. 149-158, (2016) (PubMed).

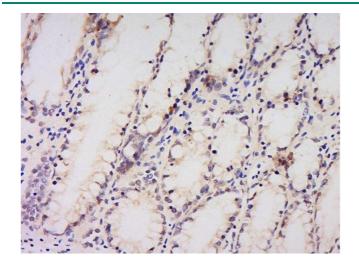
There are more publications referencing this product on: Product page

Images



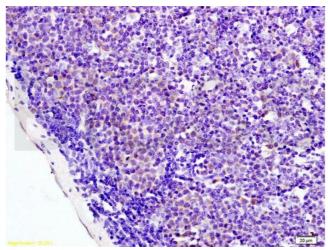
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-AMPK alpha-1/PRKAA1 Polyclonal Antibody, Unconjugated (ABIN737886) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human kidney labeled with Anti-AMPK alpha-1 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded mouse colon labeled with Anti-AMPK alpha-1/PRKAA1 Polyclonal Antibody, Unconjugated (ABIN737886) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Please check the product details page for more images. Overall 4 images are available for ABIN737886.