

PKA α/β/γ (Phospho Thr197) Rabbit mAb (AR1968)

Key Features

Host Species:	Rabbit
Reactivity:	Human, Mouse, Rat
Applications:	WB, IHC, IF, IP, ELISA
Isotype:	IgG, Kappa
MW:	41kDa (Calculated) 41kDa (Observed)

Recommended Dilution Ratios

IHC:	1:200-1000
WB:	1:2000-10000
IF:	1:200-1000
ELISA:	1:5000-20000
IP:	1:50-200

Storage	-15°C to -25°C/1 year (Do not lower than -25°C)
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Basic Information

Clonality	Monoclonal
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Immunogen Information

Specificity	Endogenous
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Target Information

Gene name	PRKACA/PRKACB
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Protein Name	cAMP-dependent protein kinase catalytic subunit alpha/beta
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Organism	Gene ID	UniProt ID
Human	5566; 5567	P17612; P22694; P22612

Mouse	18747; 18749
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Rat	293508	P27791; P68182
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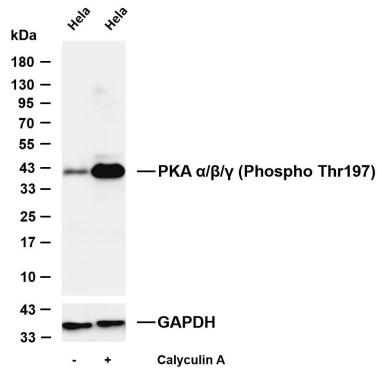
Cellular Localization	Cytoplasm. Cell membrane. Nucleus. Mitochondrion. Membrane;
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Lipid-anchor. Translocates into the nucleus (monomeric catalytic subunit). The inactive holoenzyme is found in the cytoplasm. Distributed throughout the cytoplasm in meiotically incompetent oocytes. Associated to mitochondrion as meiotic competence is acquired. Aggregates around the germinal vesicles (GV) at the immature GV stage oocytes (By similarity). Colocalizes with HSF1 in nuclear stress bodies (nSBs) upon heat shock (PubMed:21085490); [Isoform 2]: Cell projection, cilium, flagellum. Cytoplasmic vesicle, secretory vesicle, acrosome. Expressed in the midpiece region of the sperm flagellum (PubMed:10906071). Colocalizes with MROH2B and TCP11 on the acrosome and tail regions in round spermatids and spermatozoa regardless of the capacitation status of the sperm (By similarity)

Tissue specificity

Isoform 1 is ubiquitous. Isoform 2 is sperm-specific and is enriched in pachytene spermatocytes but is not detected in round spermatid

Validation Data



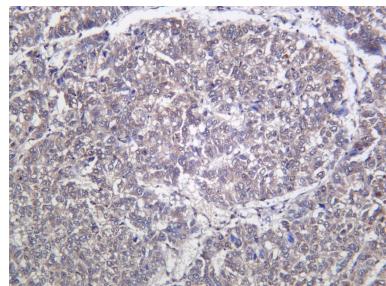
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PKA α/β/γ (Phospho Thr197) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: HeLa

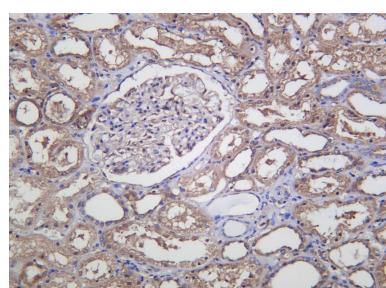
Lane 2: HeLa starved of serum overnight and then treated with 20% fetal bovine serum and Calyculin A (100 nM) for 15 minutes

Predicted band size: 41kDa

Observed band size: 41kDa



Human hepatocellular carcinoma was stained with anti-PKA α/β/γ (Phospho Thr197) Rabbit antibody.



Human kidney was stained with anti-PKA α/β/γ (Phospho Thr197) Rabbit antibody.

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