


Product datasheet

Anti-PRKAR1A (phospho S77) antibody [EPMAYR1-127] ab139682

Recombinant RabMAb

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Overview

Product name	Anti-PRKAR1A (phospho S77) antibody [EPMAYR1-127]
Description	Rabbit monoclonal [EPMAYR1-127] to PRKAR1A (phospho S77)
Host species	Rabbit
Specificity	ab139682 only detects Protein Kinase A regulatory subunit I alpha/PRKAR1A phosphorylated at serine 77.
Tested applications	Suitable for: WB Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Fetal heart tissue lysate.
General notes	<p>This antibody was developed as part of a collaboration between Abcam and the lab of Dr. Ozgur Ogut at the Mayo Clinic.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide

	Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPMAYR1-127
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab139682 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 43 kDa.

Application notes Is unsuitable for ICC/IF or IHC-P.

Target

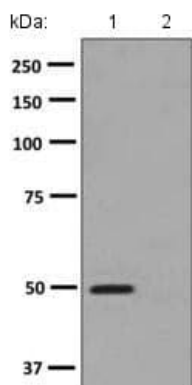
Tissue specificity Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible.

Involvement in disease Defects in PRKAR1A are the cause of Carney complex type 1 (CNC1) [MIM:160980]. CNC is a multiple neoplasia syndrome characterized by spotty skin pigmentation, cardiac and other myxomas, endocrine tumors, and psammomatous melanotic schwannomas. Defects in PRKAR1A are the cause of intracardiac myxoma (INTMYX) [MIM:255960]. Inheritance is autosomal recessive. Defects in PRKAR1A are the cause of primary pigmented nodular adrenocortical disease type 1 (PPNAD1) [MIM:610489]. Primary pigmented nodular adrenocortical disease is a rare bilateral adrenal defect causing ACTH-independent Cushing syndrome. Macroscopic appearance of the adrenals is characteristic with small pigmented micronodules observed in the cortex. PPNAD1 is most often diagnosed in patients with Carney complex, but it can also be observed in patients without other manifestations or familial history.

Sequence similarities Belongs to the cAMP-dependent kinase regulatory chain family. Contains 2 cyclic nucleotide-binding domains.

Post-translational modifications The pseudophosphorylation site binds to the substrate-binding region of the catalytic chain, resulting in the inhibition of its activity.

Images



Western blot - Anti-PRKAR1A (phospho S77)
antibody [EPMAYR1-127] (ab139682)

All lanes : Anti-PRKAR1A (phospho S77) antibody [EPMAYR1-127] (ab139682) at 1/1000 dilution

Lane 1 : Fetal heart lysate

Lane 2 : Fetal heart lysate treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 43 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PRKAR1A (phospho S77) antibody [EPMAYR1-127] (ab139682)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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