Datasheet for ABIN1944856

anti-AK4 antibody (AA 119-153)

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Overview

Quantity:	400 µL
Target:	AK4
Binding Specificity:	AA 119-153
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This AK4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 119-153 amino acids from the Central region of human AK4.
Clone:	RB48826
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	AK4
Alternative Name:	AK4 (AK4 Products)

Target Details

Background:	Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates. Efficiently phosphorylates AMP and dAMP using ATP as phosphate donor, but phosphorylates only AMP when using GTP as phosphate donor. Also displays broad nucleoside diphosphate kinase activity.
Molecular Weight:	25268
Gene ID:	205
UniProt:	P27144
Pathways:	Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	IF: 1:25. WB: 1:1000. IHC-P: 1:25. IHC-P: 1:25. IHC-P: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

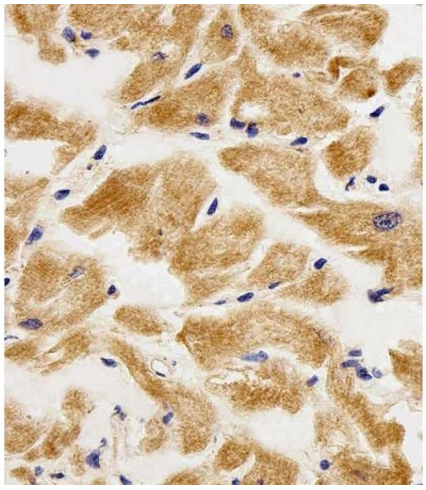
Publications

Product cited in:	Takeda, Kadowaki, Haga, Takaesu, Mitaku: "Identification of G protein-coupled receptor genes from the human genome sequence." in: **FEBS letters**, Vol. 520, Issue 1-3, pp. 97-101, (2002) (PubMed). Communi, Gonzalez, Detheux, Brézillon, Lannoy, Parmentier, Boeynaems: "Identification of a novel human ADP receptor coupled to G(i)." in: **The Journal of biological chemistry**, Vol. 276, Issue 44, pp. 41479-85, (2001) (PubMed).

Publications

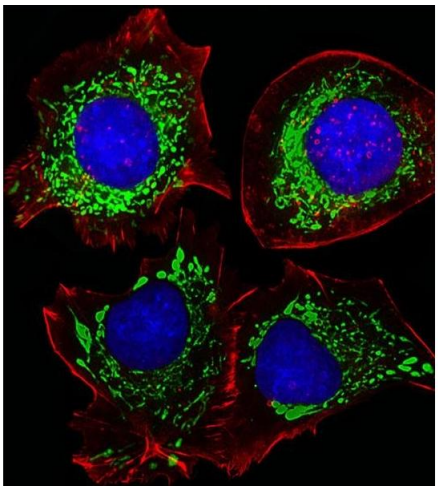
Wittenberger, Schaller, Hellebrand: "An expressed sequence tag (EST) data mining strategy succeeding in the discovery of new G-protein coupled receptors." in: **Journal of molecular biology**, Vol. 307, Issue 3, pp. 799-813, (2001) (PubMed).

Images



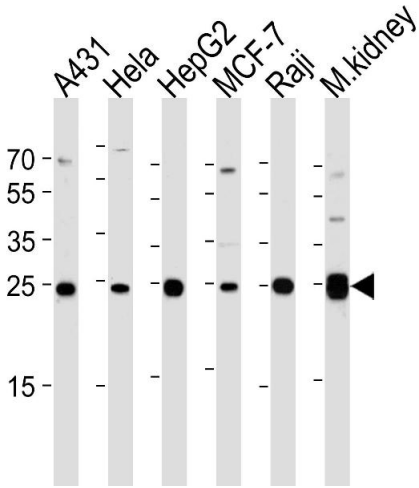
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded H.heart section using AK4 Antibody (Center) (ABIN1944856 and ABIN2838526). (ABIN1944856 and ABIN2838526) was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunofluorescence

Image 2. Fluorescent image of HepG2 cells stained with AK4 Antibody (Center) (ABIN1944856 and ABIN2838526). (ABIN1944856 and ABIN2838526) was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DI was used to stain the cell nuclear (blue). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Western Blotting

Image 3. Western blot analysis of lysates from A431, Hela, HepG2, MCF-7, Raji cell line and mouse kidney tissue lysate (from left to right), using AK4 Antibody (Center) (ABIN1944856 and ABIN2838526). (ABIN1944856 and ABIN2838526) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.

Images

Please check the product details page for more images. Overall 5 images are available for ABIN1944856.