

Datasheet for ABIN6719423
anti-AIP antibody (AA 91-330)



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Overview

Quantity:	100 µg
Target:	AIP
Binding Specificity:	AA 91-330
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AIP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ARA9/AIP Antibody Picoband® (monoclonal, 10G8)
Immunogen:	E.coli-derived human ARA9 recombinant protein (Position: D91-H330). Human ARA9 shares 95% amino acid (aa) sequence identity with both mouse and rat ARA9.
Clone:	10G8
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ARA9/AIP Antibody Picoband® (monoclonal, 10G8) (ABIN6719423). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our

Product Details

best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: AIP

Alternative Name: AIP ([AIP Products](#))

Background: Synonyms: H receptor-interacting protein, AIP, Aryl-hydrocarbon receptor-interacting protein, HBV X-associated protein 2, XAP-2, Immunophilin homolog ARA9, AIP, XAP2

Tissue Specificity: Widely expressed. Higher levels seen in the heart, placenta and skeletal muscle. Not expressed in the liver.

Background: AIP, also known as, ARA9 or XAP-2, is a protein that in humans is encoded by the AIP gene. This gene is mapped to 11q13.2. The encoded protein is found in the cytoplasm as part of a multiprotein complex, but upon binding of ligand is transported to the nucleus. AIP may play a positive role in aryl hydrocarbon receptor-mediated signalling possibly by influencing its receptivity for ligand and/or its nuclear targeting. It has been shown that AIP is the cellular negative regulator of the hepatitis B virus (HBV) X protein. AIP mutations may be the cause of a familial form of acromegaly, familial isolated pituitary adenoma (FIPA).

Molecular Weight: 38 kDa

Gene ID: 9049

UniProt: [000170](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL

Immunocytochemistry/Immunofluorescence, 2 µg/mL

Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells

1. Carver LA, Bradfield CA (April 1997). "Ligand-dependent interaction of the aryl hydrocarbon receptor with a novel immunophilin homolog in vivo". J. Biol. Chem. 272(17): 11452-6. 2. Kuzhandaivelu, N., Cong, Y.-S., Inouye, C., Yang, W.-M., Seto, E. XAP2, a novel hepatitis B virus X-associated protein that inhibits X transactivation. Nucleic Acids Res. 24: 4741-4750, 1996. 3. Occhi G, Trivellin G, Ceccato F, et al. (2010). "Prevalence of AIP mutations in a large series of sporadic Italian acromegalic patients and evaluation of CDKN1B status in acromegalic patients with multiple endocrine neoplasia.". Eur. J. Endocrinol. 163 (3): 369-376.

Application Details

Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
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Concentration:	500 µg/mL
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Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C, -20 °C
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Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
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