

ADIPOR2/PAQR2 Rabbit pAb

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Catalog # AP52290

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q86V24
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43884
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Adiponectin receptor 2
Epitope Specificity	315-340/386
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein. Note=Localized to the cell membrane and intracellular organelles.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The adiponectin receptors, ADIPOR1 (MIM 607945) and ADIPOR2, serve as receptors for globular and full-length adiponectin (MIM 605441) and mediate increased AMPK (see MIM 602739) and PPAR-alpha (PPARA; MIM 170998) ligand activities, as well as fatty acid oxidation and glucose uptake by adiponectin (Yamauchi et al., 2003 [PubMed 12802337]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	79602
Other Names	Adiponectin receptor protein 2, Progestin and adipoQ receptor family member 2, Progestin and adipoQ receptor family member II, ADIPOR2 (HGNC:24041)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 µg /test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ADIPOR2 (HGNC:24041)
Function	Receptor for ADIPOQ, an essential hormone secreted by adipocytes that regulates glucose and lipid metabolism (PubMed: 12802337 , PubMed: 25855295). Required for normal body fat and glucose homeostasis. ADIPOQ-binding activates a signaling cascade that leads to increased PPARA activity, and ultimately to increased fatty acid oxidation and glucose uptake. Has intermediate affinity for globular and full-length adiponectin. Required for normal revascularization after chronic ischemia caused by severing of blood vessels (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein Note=Localized to the cell membrane and intracellular organelles
Tissue Location	Ubiquitous (PubMed:16044242). Highly expressed in skeletal muscle, liver and placenta (PubMed:12802337). Weakly expressed in brain, heart, colon, spleen, kidney, thymus, small intestine, peripheral blood leukocytes and lung (PubMed:12802337)

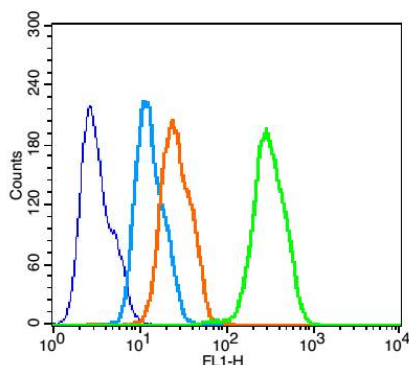
Background

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References

Tang Y.T.,et al.J. Mol. Evol. 61:372-380(2005).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Yamauchi T.,et al.Nature 423:762-769(2003).

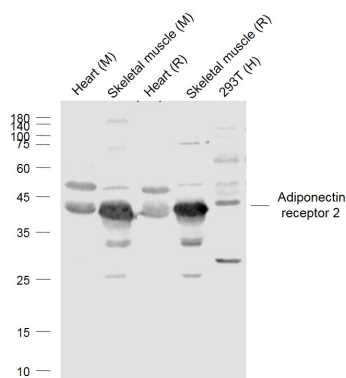
Images



Blank control: HepG2(blue). Primary Antibody:Rabbit Anti-Adiponectin receptor 2 antibody (AP52290,Green); Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde for 10 min at 37°C. Primary antibody (AP52290, 0.2 µg /1x10⁶ cells) were incubated for 30 min at room temperature, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/FITC antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 40 min at room temperature. Acquisition of 20,000 events was performed.



Sample:

Lane 1: Heart (Mouse) Lysate at 40 ug

Lane 2: Skeletal muscle (Mouse) Lysate at 40 ug

Lane 3: Heart (Rat) Lysate at 40 ug

Lane 4: Skeletal muscle (Rat) Lysate at 40 ug

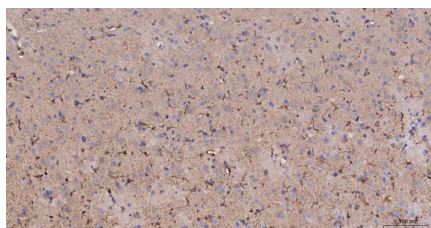
Lane 5: 293T (Human) Cell Lysate at 30 ug

Primary: Anti-Adiponectin receptor 2 (AP52290) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 44 kD

Observed band size: 43 kD



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Adiponectin receptor 2 Polyclonal Antibody, Unconjugated (AP52290) at 1:200 overnight at 4°C, followed by conjugation to the AP52290-HRP and DAB (C-0010) staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.