

Centaurin alpha 2 Rabbit pAb

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Catalog # AP55315

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9NPF8
Reactivity	Rat, Human
Predicted	Pig, Dog, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44349
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Centaurin alpha 2
Epitope Specificity	201-300/381
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	Cytoplasm. Cell membrane. Constitutively associated with the plasma membrane. Excluded from the nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The ADP-ribosylation factor (ARF) family of small GTP-binding proteins are involved in vesicular transport regulation and in controlling cytoskeletal organization and cell adhesion. The Centaurin GTPase-activating protein family comprise a subset of ARF regulatory molecules that transduce PI 3-kinase activation into coordinated control of ARF-dependent pathways. This family includes ASAP1, ACAP1, ACAP2, AGAP1, ARAP1, ARAP2, Centaurin a1, Centaurin g3 and the recently discovered Centaurin a2. Expressed in a wide variety of tissues such as fat, heart and skeletal muscle, Centaurin a2 is thought to negatively regulate ARF-mediated actin rearrangement by binding activated PI 3-kinase. Although the exact function of Centaurin a2 is not yet known, its high sequence similarity with Centaurin a1 suggests that it may also act as an ARF6 GTPase.

Additional Information

Gene ID	55803
Other Names	Arf-GAP with dual PH domain-containing protein 2, Centaurin-alpha-2, Cnt-a2, ADAP2, CENTA2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

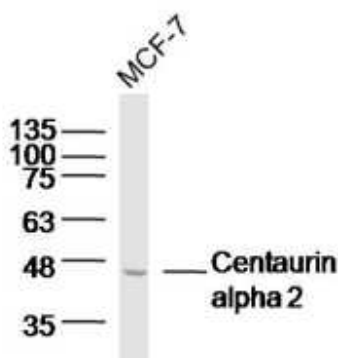
Protein Information

Name	ADAP2
Synonyms	CENTA2
Function	GTPase-activating protein for the ADP ribosylation factor family (Potential). Binds phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3) and inositol 1,3,4,5-tetrakisphosphate (InsP4). Possesses a stoichiometry of two binding sites for InsP4 with identical affinity.
Cellular Location	Cytoplasm. Cell membrane. Note=Constitutively associated with the plasma membrane. Excluded from the nucleus
Tissue Location	Highly expressed in placenta, spleen, kidney, skeletal muscle and adrenal gland. Weakly expressed in thyroid, liver, heart, lung, small intestine, peripheral blood leukocytes. Not detected in spinal cord, brain, stomach, trachea, colon, lymph node and bone marrow.

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Images



Sample:

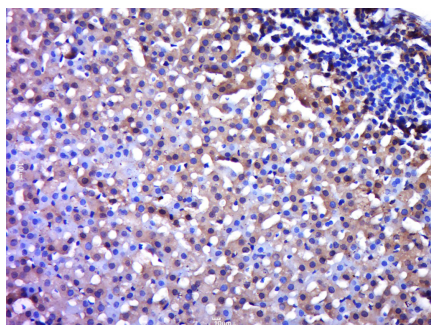
MCF-7 Cell (Human) Lysate at 30 ug

Primary: Anti-Centaurin alpha 2 (AP55315) at 1/300 dilution

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

Predicted band size: 44kD

Observed band size: 44kD



Paraformaldehyde-fixed, paraffin embedded (Rat adrenal); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Centaurin alpha 2) Polyclonal Antibody, Unconjugated (AP55315) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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