



Rabbit Anti-Centaurin alpha 2 antibody

SL13841R

Product Name:	Centaurin alpha 2
Chinese Name:	CENTA2蛋白抗体
Alias:	ADAP2; ADAP2_HUMAN; Arf-GAP with dual PH domain-containing protein 2; ArfGAP with dual PH domains 2; cent b; Centa 2; CENTA2; Centaurin alpha 2; Centaurin alpha 2 protein; Centaurin beta; Centaurin-alpha-2; Cnt-a2; HSA272195.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Centaurin alpha 2:201-300/381
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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.

Subcellular Location:

Cytoplasm. Cell membrane. Constitutively associated with the plasma membrane. Excluded from the nucleus.

Tissue Specificity:

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.

Similarity:

Contains 1 Arf-GAP domain.
Contains 2 PH domains.

SWISS:

Q9NPF8

Gene ID:

55803

Database links:

[Entrez Gene: 55803](#) Human

[Entrez Gene: 216991](#) Mouse

[Entrez Gene: 56826](#) Rat

[SwissProt: Q9NPF8](#) Human

[SwissProt: Q8R2V5](#) Mouse

[SwissProt: Q9JK15](#) Rat

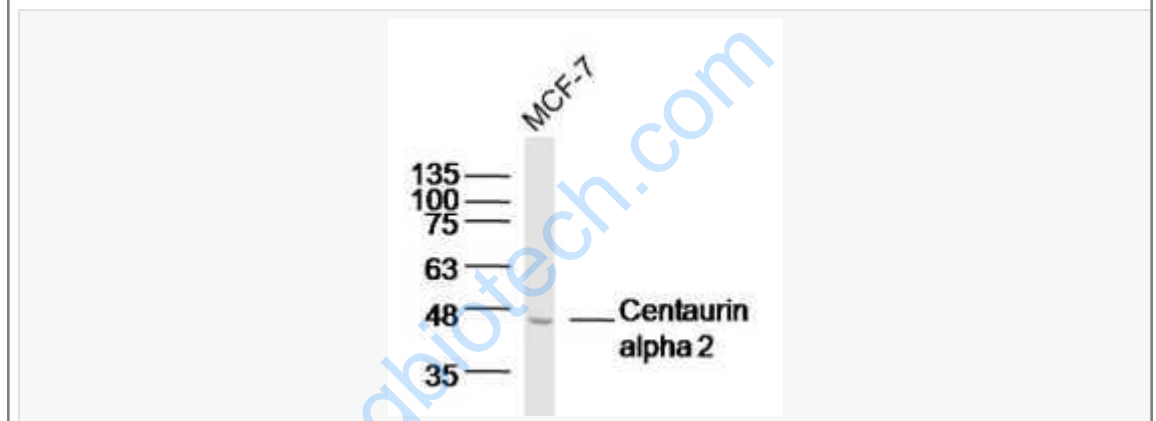
[Unigene: 514063](#) Human

[Unigene: 341520](#) Mouse

[Unigene: 203877](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Sample:

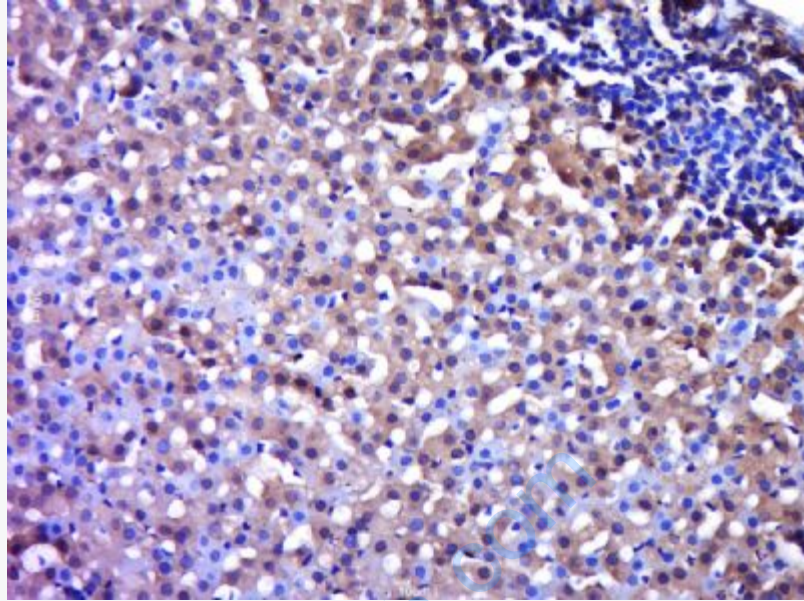
MCF-7 Cell (Human) Lysate at 30 ug

Primary: Anti-Centaurin alpha 2 (SL13841R) 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 (SL13841R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.