

Datasheet for ABIN968372
anti-CSRP2 antibody (AA 601-722)



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Overview

Quantity:	150 µg
Target:	CSRP2
Binding Specificity:	AA 601-722
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CSRP2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Rat DLP1 aa. 601-722
Clone:	8-DLP1
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Human, Dog (Canine)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	CSRP2
Alternative Name:	DLP1 (CSRP2 Products)
Background:	<p>Dynamins, phosphoproteins with intrinsic GTPase activities, play an important role during early endocytosis. The GTPase activity is stimulated in vitro by microtubules, SH3 domain containing-proteins, and Protein Kinase (PKC)- mediated phosphorylation. Although highly related, dynamins are differentially expressed in an organism. For instance, dynamin I is found only in the nervous system, dynamin II is ubiquitously expressed, and dynamin III is located in lung, testis and brain. Due to four alternative splicing products for each of the dynamins, the dynamin family contains at least 12 different members. The Dynamin Like Protein-1 (DLP1) is a new member of the dynamin family of proteins. DLP1 (also known as DVLP) is widely expressed as two alternatively spliced products, each with different tissue expression patterns. The larger product is about 84 kDa and reportedly found only in the brain, whereas the 79 kDa product is ubiquitously expressed. Unlike dynamins I-III which co-localize with endocytotic vesicles, DLP1 is found aligned with microtubules and with the endoplasmic reticulum, suggesting a secretory function for this novel protein.</p> <p>Synonyms: Dynamin Like Protein-1, DVLP</p>
Molecular Weight:	79-84 kDa

Application Details

Comment:	Related Products: ABIN967389 , ABIN968545
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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.

Handling

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

Product cited in: Bossy, Petrilli, Klinglmayr, Chen, Lütz-Meindl, Knott, Masliah, Schwarzenbacher, Bossy-Wetzel: "S-Nitrosylation of DRP1 does not affect enzymatic activity and is not specific to Alzheimer's disease." in: **Journal of Alzheimer's disease : JAD**, Vol. 20 Suppl 2, Issue 6, pp. S513-26, (2010) ([PubMed](#)).

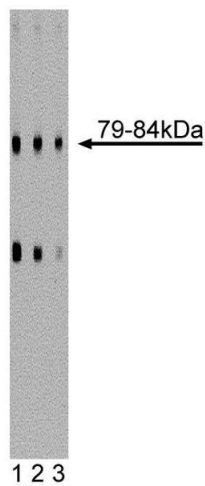
Estaquier, Arnoult: "Inhibiting Drp1-mediated mitochondrial fission selectively prevents the release of cytochrome c during apoptosis." in: **Cell death and differentiation**, Vol. 14, Issue 6, pp. 1086-94, (2007) ([PubMed](#)).

Karbowski, Neutzner, Youle: "The mitochondrial E3 ubiquitin ligase MARCH5 is required for Drp1 dependent mitochondrial division." in: **The Journal of cell biology**, Vol. 178, Issue 1, pp. 71-84, (2007) ([PubMed](#)).

Duvezin-Caubet, Jagasia, Wagener, Hofmann, Trifunovic, Hansson, Chomyn, Bauer, Attardi, Larsson, Neupert, Reichert: "Proteolytic processing of OPA1 links mitochondrial dysfunction to alterations in mitochondrial morphology." in: **The Journal of biological chemistry**, Vol. 281, Issue 49, pp. 37972-9, (2006) ([PubMed](#)).

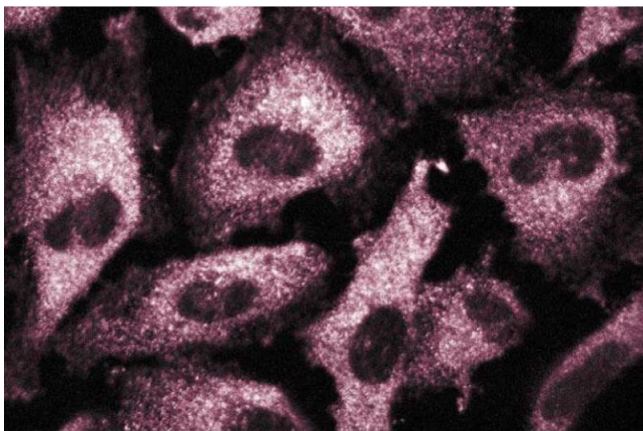
Jofuku, Ishihara, Mihara: "Analysis of functional domains of rat mitochondrial Fis1, the mitochondrial fission-stimulating protein." in: **Biochemical and biophysical research communications**, Vol. 333, Issue 2, pp. 650-9, (2005) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Western blot analysis of DLP1 on a rat cerebrum lysate. 1 $\mu\text{g/mL}$ (lane 1), 0.5 $\mu\text{g/mL}$ (lane 2) and 0.25 $\mu\text{g/mL}$ (lane 3) of the mouse anti-DLP1 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of human endothelial cells.

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968372.