Datasheet for ABIN968651

anti-Density Regulated Protein antibody (AA 19-201)

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Overview

Quantity:	50 µg
Target:	Density Regulated Protein (DENR)
Binding Specificity:	AA 19-201
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Density Regulated Protein antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Drp1 aa. 19-201
Clone:	22-Drp1
Isotype:	IgG2a
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. 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.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	Density Regulated Protein (DENR)
Alternative Name:	Density-regulated protein (DENR Products)
Background:	In culture, cell density can have profound effects on gene expression, enzymatic activity, and cell signaling pathways. Using differential screening of cDNAs from low-passage nontumorigenic teratocarcinoma cells versus high passage tumorigenic cells, a protein was identified that is regulated in cell-density dependent manner. This protein, density-regulated protein 1 (drp1), contains putative sites for N-myristoylation and phosphorylation sites for cAMP and/or cGMP-dependent kinase, casein kinase II, and PKC. The expression of drp1 is enriched in high density cultures of both nontumorigenic and tumorigenic cell lines and is widely detected in adult organs, especially skeletal and cardiac muscle. In addition, increased expression of drp1 is not due to growth arrest as a result of serum starvation or TGF-beta treatment nor is it a result of factors found in the media of high density cultures. Interestingly, drp1 is expressed highest in skeletal and cardiac muscle where unique cell-cell contacts are involved in muscle cell membrane depolarization and contraction. Thus, drp1 expression may be regulated by signaling pathways related to specific types of cell-cell contacts. This antibody is routinely tested by western blot analysis. Synonyms: Density Regulated Protein-1
Molecular Weight:	27 kDa

Application Details

Comment:	Related Products: ABIN968551, ABIN967389
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

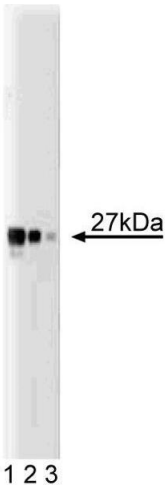
Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

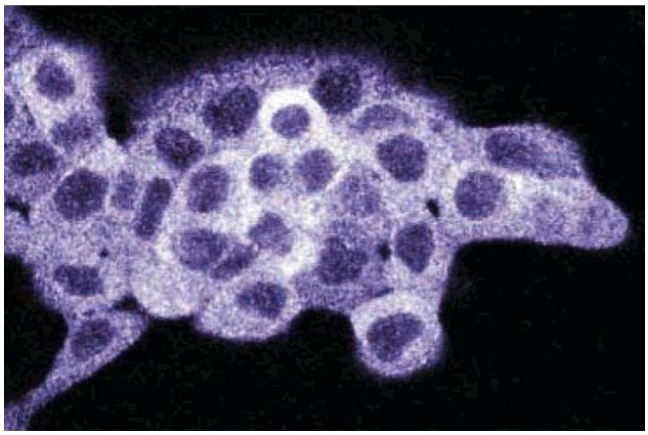
Product cited in:	Deyo, Chiao, Tainsky: "drp, a novel protein expressed at high cell density but not during growth arrest." in: **DNA and cell biology**, Vol. 17, Issue 5, pp. 437-47, (1998) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Drp1 on a HCT-8 cell lysate (Human colorectal adenocarcinoma, ATCC CCL-244). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-Drp1 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining on A431 cells (Human epithelial carcinoma, ATCC CRL-1555).