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CGI-58 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10698

Specification

CGI-58 Antibody - Product Information

Application	**WB**
Primary Accession	Q8WTS1
Other Accession	AAD34053
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**39096**

CGI-58 Antibody - Additional Information

Gene ID 51099

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The antibody recognizes ~45 kDa of CGI-58 in 3T3 cell lysate. Reactivity to other species has not been tested.**

Other Names
Comparative Gene Identification-58, CGI58, CGI-58, CGI 58

Target/Specificity
CGI-58

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
CGI-58 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CGI-58 Antibody - Protein Information

Name ABHD5 (HGNC:21396)

Synonyms NCIE2

Function
Coenzyme A-dependent lysophosphatidic acid acyltransferase that catalyzes the transfer of an acyl group on a lysophosphatidic acid (PubMed:18606822). Functions preferentially with 1-oleoyl- lysophosphatidic acid followed by 1-palmitoyl-lysophosphatidic acid, 1-stearoyl-lysophosphatidic acid and 1-arachidonoyl-lysophosphatidic acid as lipid acceptor. Functions preferentially with arachidonoyl-CoA followed by oleoyl-CoA as acyl group donors (By similarity). Functions in phosphatidic acid biosynthesis (PubMed:18606822). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (PubMed:16679289). Involved in keratinocyte differentiation (PubMed:18832586). Regulates lipid droplet fusion (By similarity).

Cellular Location
Cytoplasm. Lipid droplet {ECO:0000250|UniProtKB:Q9DBL9}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9DBL9}. Note=Colocalized with PLIN and ADRP on the surface of lipid droplets. The localization is dependent upon the metabolic status of the adipocytes and the activity of PKA (By similarity).

Tissue Location
Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).

CGI-58 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CGI-58 Antibody - Images

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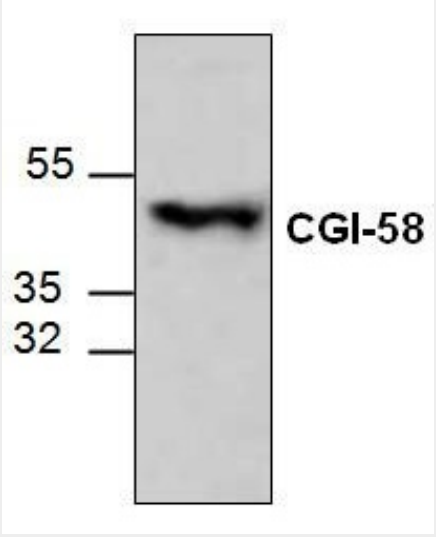

Western blot analysis of CGI-58 expression in 3T3 cell lysate.

CGI-58 Antibody - Background

Comparative Gene Identification-58 (CGI-58) is a causal gene of Dorfman-Chanarin syndrome, a neutral lipid storage disease characterized by the presence of intracellular lipid droplets in tissues. CGI-58 comes from a large family of proteins characterized by an α/β hydrolase fold that activates adipose triglyceride lipase thus, may involve in lipid metabolism.