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C2orf43 Rabbit pAb

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Catalog # AP59393

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9H6V9
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37319
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C2orf43
Epitope Specificity	1-100/325
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	C2orf43 is a 325 amino acid protein that belongs to the UPF0554 family and is encoded by a gene that maps to human chromosome 2q11.2. As the second largest human chromosome, chromosome 2 makes up approximately 8% of the human genome and contains 237 million bases encoding over 1,400 genes. A number of genetic diseases are linked to genes on chromosome 2. Harlequin icthyosis, a rare skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alstr鰉 syndrome, is related to mutations in the ALMS1 gene. Chromosome 2 contains a probable vestigial second centromere as well as vestigial telomeres, which gives credence to the hypothesis that human chromosome 2 formed as a result of an ancient fusion of two ancestral chromosomes, which are still present in modern day apes.

Additional Information

Gene ID	60526
Other Names	Lipid droplet-associated hydrolase {ECO:0000312|HGNC:HGNC:26145}, 3.1.1.13, Lipid droplet-associated serine hydrolase, hLDAH, LDAH {ECO:0000303|PubMed:24357060, ECO:0000312|HGNC:HGNC:26145}
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	LDAH {ECO:0000303|PubMed:24357060, ECO:0000312|HGNC:HGNC:26145}
Function	Probable serine lipid hydrolase associated with lipid droplets (By similarity). Has low cholesterol esterase activity (By similarity). Appears to lack triglyceride lipase activity (By similarity). Involved in cholesterol and triglyceride homeostasis; has opposing effects, stimulating cellular triglyceride accumulation and cellular cholesterol release (PubMed:24357060, PubMed:28578400). Acts antagonistically with PNPLA2/ATGL in regulation of cellular lipid stores (PubMed:28578400). May regulate triglyceride accumulation indirectly through stimulation of PNPLA2/ATGL ubiquitination and proteasomal degradation (PubMed:28578400). Promotes microtubule-dependent lipid droplet fusion (PubMed:28578400). Highly expressed in macrophage-rich areas in atherosclerotic lesions, suggesting that it could promote cholesterol ester turnover in macrophages (By similarity).
Cellular Location	Lipid droplet. Endoplasmic reticulum. Note=Localizes to the endoplasmic reticulum in absence of lipid droplets and translocates to lipid droplets upon lipid storage induction (PubMed:28578400). Lipid droplet localization does not require hydrolase activity (By similarity) {ECO:0000250|UniProtKB:Q8BVA5, ECO:0000269|PubMed:28578400}
Tissue Location	Present in macrophage-rich areas in atherosclerotic lesions (at protein level) (PubMed:24357060). Expressed in monocytes and monocyte-derived macrophages (at protein level) (PubMed:24357060)

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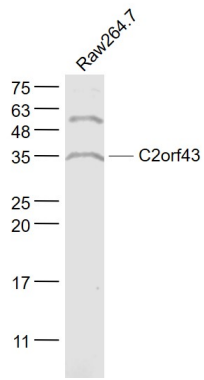
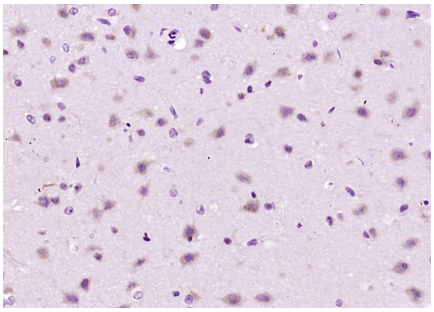
Images



Sample:
Raw264.7(Mouse) Cell Lysate at 30 ug
Primary: Anti- C2orf43 (AP59393) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 37 kD
Observed band size: 35 kD

Paraformaldehyde-fixed, paraffin embedded (mouse brain); 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 (C2orf43) Polyclonal Antibody, Unconjugated (AP59393) at 1:200 overnight at 4°C,



followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.