

For Research Use Only

Perilipin-2 Recombinant antibody, PBS Only

Catalog Number: 80362-2-PBS



Basic Information

| | | |
|-------------------------------------|---|--|
| Catalog Number: 80362-2-PBS | GenBank Accession Number: BC005127 | Purification Method: Protein A purification |
| Size: 1 mg/ml | GeneID (NCBI): 123 | CloneNo.: 230274F4 |
| Source: Rabbit | UNIPROT ID: Q99541 | |
| Isotype: IgG | Full Name: adipose differentiation-related protein | |
| Immunogen Catalog Number: AG7539 | Calculated MW: 48 kDa | |
| | Observed MW: 48 kDa | |

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse

Background Information

ADRP (adipocyte differentiation related protein) also known as ADFP, adipophilin, or perilipin-2, is a member of PAT family which is responsible for the transportation of lipids and the formation of lipid droplets. ADRP is localized on the surface of lipid droplets in a variety of tissues and cell lines. ADRP is not detected in undifferentiated cells but increases rapidly to high levels when adipocyte precursors differentiate into adipocytes. Anti-ADRP antibody is a reliable and sensitive marker for lipid droplet. Enhanced expression of ADRP is linked to diseases with abnormal lipid storage, including hepatic steatosis, atherosclerosis and diabetes. Immunohistochemistry of ADRP may facilitate histomorphological diagnosis of these diseases.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

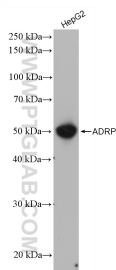
T: 4006900926

E: Proteintech-CN@ptglab.com

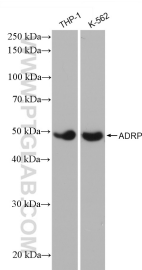
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

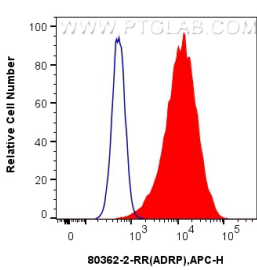
Selected Validation Data



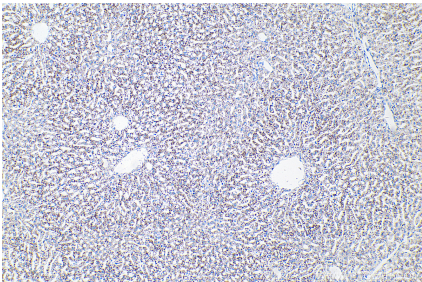
Various lysates were subjected to SDS PAGE followed by western blot with 80362-2-RR (ADRP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80362-2-PBS in a different storage buffer formulation.



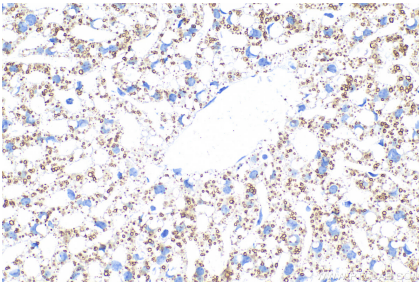
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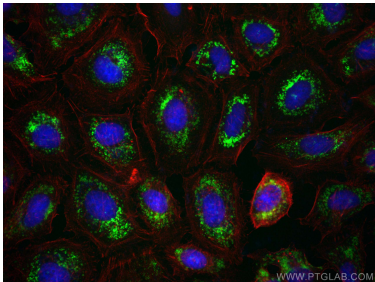
1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug ADRP Recombinant antibody (80362-2-RR, Clone:230274F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 80362-2-PBS in a different storage buffer formulation.



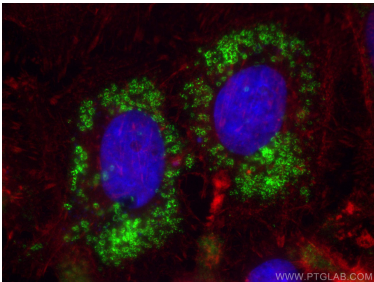
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 80362-2-RR (ADRP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80362-2-PBS in a different storage buffer formulation.



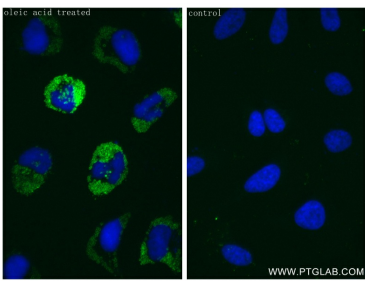
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 80362-2-RR (ADRP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80362-2-PBS in a different storage buffer formulation.



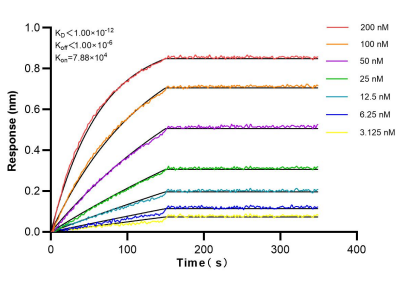
Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using ADRP antibody (80362-2-RR, Clone: 230274F4) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red). This data was developed using the same antibody clone with 80362-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using ADRP antibody (80362-2-RR, Clone: 230274F4) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red). This data was developed using the same antibody clone with 80362-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using ADRP antibody (80362-2-RR, Clone: 230274F4) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 80362-2-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 80362-2-RR against Human ADRP were performed. The affinity constant is below 1 pM.