



[Go to Product page](#)

Datasheet for ABIN6262052

## anti-O3FAR1 antibody (Internal Region)

### 2 Images

#### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | O3FAR1   |
| Binding Specificity: | Internal Region  |
| Reactivity:          | Human, Mouse, Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This O3FAR1 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC) |

#### Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | A synthesized peptide derived from human GPR120, corresponding to a region within the internal amino acids.               |
| Isotype:              | IgG   |
| Specificity:          | GPR120 Antibody detects endogenous levels of total GPR120.  |
| Predicted Reactivity: | Bovine,Horse,Sheep,Rabbit,Dog   |
| Purification:         | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

#### Target Details

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|---------|--------|
| Target: | O3FAR1 |
|---------|--------|

## Target Details

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Alternative Name: [FFAR4 \(O3FAR1 Products\)](#)

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Background: Description: Receptor for medium and long-chain free fatty acids (FFAs). Signals via a G(q)/G(11)-coupled pathway. Acts as a receptor for omega-3 fatty acids and mediates robust anti-inflammatory effects, particularly in macrophages and fat cells. The anti-inflammatory effects involve inhibition of TAK1 through a beta-arrestin 2 (ARRB2)/TAB1-dependent effect, but independent of the G(q)/G(11)-coupled pathway. Mediates potent insulin sensitizing and antidiabetic effects by repressing macrophage-induced tissue inflammation. May mediate the taste of fatty acids. Mediates FFA-induced inhibition of apoptosis in enteroendocrine cells. May play a role in the regulation of adipocyte development and differentiation.

Gene: FFAR4

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Molecular Weight: 42 kDa

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Gene ID: 338557

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UniProt: [Q5NUL3](#)

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Pathways: [Hormone Transport](#)

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## Application Details

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Application Notes: WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

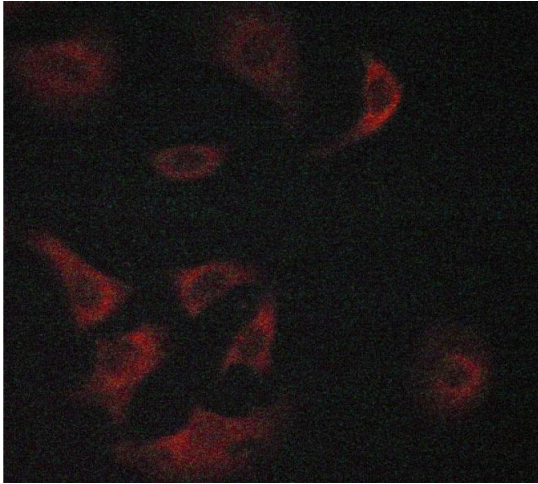
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Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

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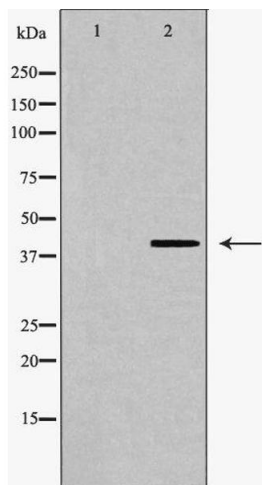
Expiry Date: 12 months

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### Immunofluorescence (fixed cells)

**Image 1.** ABIN6268767 staining LOVO cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor® 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



### Western Blotting

**Image 2.** Western blot analysis of GPR120 expression in PC12 cells, The lane on the left is treated with the antigen-specific peptide.