

Anti-C1QBP Antibody (6Q432)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6Q432
Purification:	Protein A

Applications

1. Immunofluorescence staining of Human C1QBP in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.5% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human C1QBP monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

2. C1QBP was immunoprecipitated using:

- Lane A: 0.5 mg HeLa Whole Cell Lysate.
- Lane B: 0.5 mg HepG2 Whole Cell Lysate.
- 2 µL anti-C1QBP mouse monoclonal antibody and 15 µL of 50 % Protein G agarose.
- Primary antibody:
- Anti-C1QBP mouse monoclonal antibody, at 1:100 dilution.

- Secondary antibody:
- Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution.
- Developed using the odyssey technique.
- Performed under reducing conditions.
- Predicted band size: 35 kDa.
- Observed band size: 35 kDa.

Verified Activity:

3. Anti-C1QBP mouse monoclonal antibody at 1:500 dilution.

- Lane A: HeLa Whole Cell Lysate.
- Lane B: 293T Whole Cell Lysate.
- Lane C: Jurkat Whole Cell Lysate.
- Lane D: NIH/3T3 Whole Cell lysate.
- Lysates/proteins at 30 µg per lane.
- Secondary
- Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.
- Developed using the Odyssey technique.
- Performed under reducing conditions.
- Predicted band size: 31 kDa.
- Observed band size: 35 kDa.

4. Anti-C1QBP mouse monoclonal antibody at 1:500 dilution.

- Lane A: C1QBP knockout HeLa Whole Cell Lysate.
- Lane B: HeLa Whole Cell lysate.
- Lysates/proteins at 10 µg per lane.
- Secondary
- Rabbit Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution.
- Developed using the ECL technique.

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- Performed under reducing conditions.
- Predicted band size:31 kDa.
- Observed band size:35 kDa(Validation Experiment)

Application: ELISA,ICC/IF,IP,WB

Recommended WB: 1:500-1:2000; ELISA: 1:1000-1:2000; ICC-IF: 1:20-1:100; IP: 1-4 µL/mg of lysate

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human C1QBP / HABP1 protein (TMPY-01863)

Antigen Species: Human

Synonyms: D11Wsu182e;HABP1;P32;gC1qBP;AA407365;complement component 1, q subcomponent binding protein;AA986492

Research Background

Hyaluronan binding protein 1 (HABP1), also known as p32 or gC1qR, is a ubiquitously expressed multifunctional phospho-protein implicated in cell signalling. Hyaluronan-binding protein 1 (HABP1) /p32/gC1qR was characterized as a highly acidic and oligomeric protein, which binds to different ligands like hyaluronan, C1q, and mannosylated albumin. The role of hyaluronan binding protein 1 (HABP1) in cell signaling was investigated and in vitro. HABP1 overexpressing cells showed extensive vacuolation and reduced growth rate, which was corrected by frequent medium replenishment. Further investigation revealed that HABP1 overexpressing cells undergo apoptosis, and they failed to enter into the S-phase. The sperm surface HABP1 level can be correlated with the degree of sperm motility. Hyaluronan binding protein 1 (HABP1) was reported to be present on human sperm surface and its involvement in fertilization has already been elucidated: decreased HABP1 level may be associated with low motility of sperms, which in turn might cause infertility in the patient. HABP1 also is an endogenous substrate for MAP kinase and upon mitogenic stimulation it is translocated to the nucleus in a MAP kinase-dependent manner.

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