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Store at -20C
#5734

C1QBP Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit	UniProt ID: #Q07021	Entrez-Gene Id: 708
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

C1QBP Antibody recognizes endogenous levels of total C1QBP protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys220 of human C1QBP protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

C1QBP, also referred to as p32, p33, gC1q receptor (gC1qR), and hyaluronic acid binding protein 1 (HABP1), was originally identified via its binding interactions with Splicing Factor (SF-2) (1). Multiple, diverse binding partners of C1QBP were subsequently identified, including the globular heads of complement component C1q, hyaluronic acid, selected protein kinases (2), the tumor suppressor ARF (3-5), and multiple antigens of bacterial and viral origin (6). Research studies have shown that C1QBP is overexpressed in a number of cancer cell types (7), and has been implicated in the Warburg effect, whereby cancer cells shift their metabolism from oxidative phosphorylation to glycolysis (7). C1QBP has also been shown to inhibit the Mitochondrial Permeability Transition (MPT) pore, possibly serving a protective function against damage from oxidative stress (8).

Background References

1. Krainer, A.R. et al. (1991) *Cell* 66, 383-94.
2. Storz, P. et al. (2000) *J Biol Chem* 275, 24601-7.
3. Itahana, K. and Zhang, Y. (2008) *Cancer Cell* 13, 542-53.
4. Reef, S. et al. (2007) *Oncogene* 26, 6677-83.
5. Reef, S. et al. (2006) *Mol Cell* 22, 463-75.
6. Peerschke, E.I. and Ghebrehiwet, B. (2007) *Immunobiology* 212, 333-42.
7. Fogal, V. et al. (2010) *Mol Cell Biol* 30, 1303-18.
8. McGee, A.M. and Baines, C.P. (2010) *Biochem J* 433, 119-25.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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