Revision 4

#6502 Store at -20C

C1QBP (D7H12) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P, IF-IC, FC-FP	H M R Mk	Endogenous	28	Rabbit IgG	#Q07021	708

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:800 - 1:3200
Immunofluorescence (Immunocytochemistry)	1:50
Flow Cytometry (Fixed/Permeabilized)	1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #94879.

Specificity / Sensitivity

C1QBP (D7H12) XP® Rabbit mAb recognizes endogenous levels of total C1QBP protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human C1QBP protein.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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