Technical Data Sheet

InVivoMAb anti-human GC1q R (C1QBP)

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

Lot Number: **Lot Specific***
Volume: **Lot Specific***
Concentration: **Lot Specific* (generally 4 to 11 mg/ml) ***
Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	**BE0411**
Clone:	**60.11**
Isotype:	Mouse IgG1, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Purified mature form of gClq-R (residues 74-282)
Reported Applications:	*in vivo* blockade of gC1q R *in vitro* blockade of gC1q R *in vitro* functional assays Flow cytometry Immunohistochemistry (paraffin) Immunofluorescence Immunoprecipitation Western blot ELISA
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	
Molecular Weight:	150 kDa

Description

The 60.11 monoclonal antibody reacts with the mature form of gClq R from human, mouse, and rat species. This antibody detects the monomeric and dimeric forms of gClq R, but it does not bind gClq-R's truncated form which lacks residues 74-95. gClq R, also called p32 or HABP1, has been identified as the major cellular binding site for complement component 1q (C1q). gClq R has a molecular weight of 33 kDa, and is a highly anionic protein that shows ubiquitous expression with predominant localization to the mitochondrial matrix of cells. gClq R has also been shown to localize to the cell surface as well as some cellular organelles, such as the endoplasmic reticulum and nucleus. The expression of gClq-R has been reported to be upregulated in epithelial cancers (e.g., mammary cancer, colorectal cancer, and pulmonary cancers). In tumors, the gC1q R protein has been shown to be released into the tumor microenvironment, where it regulates cancer cell proliferation and metastasis through activation of the complement and the kinin-kallikrein system (KKS) signaling pathways. In vitro studies have shown an induction in the expression of gClq R in normal cells (e.g., blood platelets, endothelial cells)

responding to reparative and inflammatory stimuli. In vitro pretreatment with the 60.11 antibody has been shown to inhibit the complement component C1q-induced adhesion and spreading of endothelial cells. In vivo blockade of gC1q R with the 60.11 antibody has been shown to reduce Staphylococcus aureus colonization of target tissues in a rat model of infective endocarditis. In experiments involving a mouse model of orthotropic triple-negative breast cancer xenograft, in vivo blockade of gC1q R with a 60.11 antibody is shown to decrease the growth of the tumors. Like PD-1 and PD-L1 signaling, studies involving the interaction between cancer cells expressed C1q and cytotoxic T cells positive for gC1qR have suggested the C1q and gC1qR axis as a checkpoint inhibitor in cancer immunotherapy.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**
It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at https://bioxcell.com/faqs.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0411?bxcs=9k1b3a#tab_references or scan the QR code below.

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