Technical Data Sheet

InVivoMAb anti-human/rat/mouse CD36 (FAT)

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:	**BE0482**
Clone:	**FA6-152**
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:	Fetal human red blood cells
Reported Applications:	*in vivo* blockade of CD36 *in vitro* blockade of CD36 Immunoprecipitation Immunofluorescence Flow cytometry Western blot
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 FA6-152 antibody reacts with human, mouse, or rat CD36 antigen, also known as platelet glycoprotein IV (GP IV), fatty acid translocase (FAT), and scavenger receptor class B member 3 (SCARB3). This antibody binds an epitope within an immunodominant domain (amino acids 155–183) and is suggested to block the CD36 ligand sites (especially for TSP and oxLDL). CD36 is a multifunctional glycoprotein that serves as a receptor for several proteinaceous (e.g., thrombospondin, fibronectin, and collagen) and lipidic ligands (e.g., oxLDL). The other known ligands of CD36 include amyloid-beta 42, PTK2, PXN, LYN, CD9, CD81, FCER1G, ITGB2, ARF6, and the CD36 signaling also regulates the TLRs through its interaction with TLR4:TLR6 and TLR2:TLR6 heterodimers. CD36 functions as a scavenger receptor and signal transducer on the surface of platelets, erythrocyte precursor cells, epithelial and endothelial cells, monocytes, macrophages, and certain macrophage-derived dendritic cells (PhiDCs). CD36 is involved in several biological processes, including cell adhesion, angiogenesis, fatty acid metabolism, gut neurosensory signals, inflammatory response, the biology of infections, and the removal of apoptotic or senescent cells.

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/be0482?bxcs=9k1b3a#tab_references or scan the QR code below.

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