

## Technical Data Sheet

## Purified Mouse Anti-Mouse CD36

## Product Information

Material Number:	552544
Alternate Name:	Scavenger Receptor
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	CRF D-2712
Immunogen:	Recombinant mouse CD36
Isotype:	Mouse (Cd36 null) IgA, $\kappa$
Reactivity:	QC Testing: Mouse Reported: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

The CRF D-2712 antibody reacts with mouse and rat CD36, an 88-kDa glycoprotein member of the class B scavenger receptor family. CD36 is a multifunctional receptor which has a variety of ligands and is expressed on many cell types. Consequently, it is known by several names, including macrophage scavenger receptor, platelet glycoprotein IV, and fatty acid translocase. Cells which express CD36 include platelets, megakaryocytes, monocytes/macrophages, dendritic cells, erythroid precursors, microvascular endothelia, skeletal, cardiac, and smooth muscle cells, adipocytes, and epithelia of retina, breast, and intestine. Therefore, we would not expect to detect CD36 expression by flow cytometry of leukocytes isolated from naive peripheral lymphoid tissues. This multi-ligand receptor functions in the clearance of apoptotic cells and abnormal erythrocytes (in malaria and sickle-cell anemia), the transport of long-chain fatty acids and oxidized low-density lipoproteins, the regulation of angiogenesis by mediating the effects of thrombospondin-1, and the mediation of coronary vasoconstriction. Cross-linking of cell-surface CD36 with plate-bound CRF D-2712 mAb promotes internalization of photoreceptor outer segment fragments by cultured retinal pigment epithelium.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Functional assay	Reported
Immunofluorescence	Reported
Immunoprecipitation	Reported

## Suggested Companion Products

Catalog Number	Name	Size	Clone
553476	Purified Mouse IgA, $\kappa$ Isotype Control	0.5 mg	M18-254
559354	FITC Rat Anti-Mouse IgA	0.5 mg	C10-3

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

## References

- Bodart V, Febbraio M, Demers A, et al. CD36 mediates the cardiovascular action of growth hormone-releasing peptides in the heart. *Circ Res.* 2002; 90(8):844-849.(Biology)
- Febbraio M, Hajjar DP, Silverstein RL. CD36: a class B scavenger receptor involved in angiogenesis, atherosclerosis, inflammation, and lipid metabolism. *J Clin Invest.* 2001; 108(6):785-791.(Biology)
- Finnemann SC, Silverstein RL. Differential roles of CD36 and alphavbeta5 integrin in photoreceptor phagocytosis by the retinal pigment epithelium. *J Exp Med.* 2001; 194(9):1289-1298.(Immunogen: Immunofluorescence, Immunoprecipitation)