

Store at
-20C
#29176**CD68 (E3O7V) Rabbit Monoclonal Antibody (BSA and Azide Free)**

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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:
W, IHC-Bond, IHC-P, IF-F, IF-IC, FC-FP, FC-L	M R Hm	Endogenous	70-80, 130-140, 200	Rabbit IgG	#P31996	12514

Product Usage Information

This product is the carrier free version of product #97778. All data were generated using the same antibody clone in the standard formulation which contains BSA and glycerol.

This formulation is ideal for use with technologies requiring specialized or custom antibody labeling, including fluorophores, metals, lanthanides, and oligonucleotides. It is not recommended for ChIP, ChIP-seq, CUT&RUN or CUT&Tag assays. If you require a carrier free formulation for chromatin profiling, please contact us. Optimal dilutions/concentrations should be determined by the end user.

BSA and Azide Free antibodies are quality control tested by size exclusion chromatography (SEC) to determine antibody integrity.

Formulation

Supplied in 1X PBS (10 mM Na₂HPO₄, 3 mM KCl, 2 mM KH₂PO₄, and 140 mM NaCl (pH 7.8)). BSA and Azide Free.

For standard formulation of this product see product #97778.

Storage

Store at -20°C. *This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.* A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.

Specificity/Sensitivity

CD68 (E3O7V) Rabbit Monoclonal Antibody (BSA and Azide Free) recognizes endogenous levels of total CD68 protein. Staining of uncertain specificity in mouse endometrial epithelium has been observed by immunohistochemistry.

Source / Purification

Monoclonal antibody is produced by immunizing animals with mouse CD68 recombinant protein and reacts with an epitope surrounding Gly113.

Background

CD68 (macrosialin) is a heavily glycosylated transmembrane protein that is expressed by and commonly used as a marker for monocytes and macrophages (1,2). It is found on the plasma membrane, as well as endosomal and lysosomal membranes (1-3). It is proposed to bind OxLDL and has been observed as a homodimer (3,4).

Background References

1. Rabinowitz, S.S. and Gordon, S. (1991) *J Exp Med* 174, 827-36.
2. Holness, C.L. and Simmons, D.L. (1993) *Blood* 81, 1607-13.
3. Ramprasad, M.P. et al. (1995) *Proc Natl Acad Sci U S A* 92, 9580-4.
4. Ramprasad, M.P. et al. (1996) *Proc Natl Acad Sci U S A* 93, 14833-8.

Species Reactivity

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

Applications Key

W: Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse **R:** Rat **Hm:** Hamster

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