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## CD68 (D4B9C) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 555 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-P, IF-IC	H Mk	Endogenous	Rabbit IgG	#P34810	968
<b>Product Usage Information</b>	<b>Application</b>				<b>Dilution</b>
	Immunohistochemistry (Paraffin)				1:100 - 1:400
	Immunofluorescence (Immunocytochemistry)				1:1600
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>				
<b>Specificity/Sensitivity</b>	CD68 (D4B9C) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 555 Conjugate) recognizes endogenous levels of total CD68 protein.				
<b>Source / Purification Description</b>	Monoclonal antibody is produced by immunizing animals with recombinant human CD68 protein. This Cell Signaling Technology <sup>®</sup> antibody is conjugated to Alexa Fluor <sup>®</sup> 555 fluorescent dye under optimal conditions. This antibody conjugate is expected to exhibit the same species cross-reactivity as the unconjugated CD68 (D4B9C) XP <sup>®</sup> Rabbit mAb #76437.				
<b>Background</b>	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).				
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Rabinowitz, S.S. and Gordon, S. (1991) <i>J Exp Med</i> 174, 827-36.</li> <li>2. Holness, C.L. and Simmons, D.L. (1993) <i>Blood</i> 81, 1607-13.</li> <li>3. Ramprasad, M.P. et al. (1995) <i>Proc Natl Acad Sci U S A</i> 92, 9580-4.</li> <li>4. Ramprasad, M.P. et al. (1996) <i>Proc Natl Acad Sci U S A</i> 93, 14833-8.</li> </ol>				

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

**Applications Key** **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** **H:** Human **Mk:** Monkey

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