

## CD16/CD32 (2.4G2) Rat mAb (IF Formulated)



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

<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rat IgG2b	<b>UniProt ID:</b> #P08101-2, #P08508	Entrez-Gene Id: 14130, 14131
Product Usage Information	Application			Dilution
				1:50 - 1:100 1:50 - 1:100
	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i> This product is stable for 60 months when stored at -20C.			
tivity	CD16/CD32 (2.4G2) Rat mAb (IF Formulated) recognizes endogenous levels of total CD16/CD32 protein This antibody detects an epitope within the extracellular domain and is expected to detect all isoforms of CD16 and CD32. Staining of both microglia and astrocytes was seen when staining was done in 5XFAD mouse brain.			
tion	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography.			
	CD64 (FcgammaRI), CD32 (FcgammaRII), and CD16 (FcgammaRIII) are three classes of the immunoglobulin superfamily. CD64 has a high affinity for IgG with three Ig-like domains while CD32 and CD16 have low affinities with two Ig-like domains. Two genes encode CD16-A and CD16-B resulting only in a 6 amino acid difference in their ectodomains. However, CD16-A has a transmembrane anchor versus CD16-B, which has a glycosylphosphatidylinositol (1). CD64, CD32, and CD16 are membrane glycoproteins that are expressed by all immunologically active cells and trigger various immune functions (activate B cells, phagocytosis, antibody-dependent cellular cytotoxicity, immune complex clearance, and enhancement of antigen presentation) (2). CD16 cross-linking induces tyrosine phosphorylation (Tyr394) of Lck in NK cells (3). CD32 has tyrosine-based activation motifs in the cytoplasmic domain in contrast to CD16, which associates with molecules possessing these motifs (1).			
	functions (activate B cells clearance, and enhancer phosphorylation (Tyr394	pressed by all immunds, phagocytosis, antibonent of antigen presen) of Lck in NK cells (3).	logically active cells and dy-dependent cellular cy tation) (2). CD16 cross-lin D32 has tyrosine-based	trigger various immune totoxicity, immune complex king induces tyrosine activation motifs in the
	functions (activate B cells clearance, and enhancer phosphorylation (Tyr394	pressed by all immunds, phagocytosis, antibonent of antigen presen) of Lck in NK cells (3). (ontrast to CD16, which	logically active cells and dy-dependent cellular cy tation) (2). CD16 cross-lin D32 has tyrosine-based associates with molecule	trigger various immune totoxicity, immune complex king induces tyrosine activation motifs in the
	•	Application Immunofluorescence (Fr Immunofluorescence (In Supplied in 10 mM sodiu 0.02% sodium azide. Stor when stored at -20C.  tivity CD16/CD32 (2.4G2) Rat n This antibody detects an of CD16 and CD32. Staini 5XFAD mouse brain.  tion CD64 (FcgammaRI), CD3: immunoglobulin superfa and CD16 have low affini only in a 6 amino acid dif	Application Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry) Supplied in 10 mM sodium HEPES (pH 7.5), 150 0.02% sodium azide. Store at -20°C. Do not aliq when stored at -20C.  tivity CD16/CD32 (2.4G2) Rat mAb (IF Formulated) rec This antibody detects an epitope within the extr of CD16 and CD32. Staining of both microglia ar 5XFAD mouse brain.  tion CD64 (FcgammaRI), CD32 (FcgammaRII), and CI immunoglobulin superfamily. CD64 has a high a and CD16 have low affinities with two Ig-like do only in a 6 amino acid difference in their ectodo	Application Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry)  Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. This prowhen stored at -20C.  tivity  CD16/CD32 (2.4G2) Rat mAb (IF Formulated) recognizes endogenous lev This antibody detects an epitope within the extracellular domain and is a of CD16 and CD32. Staining of both microglia and astrocytes was seen w 5XFAD mouse brain.  This monoclonal antibody was purified from tissue culture supernatant of CD64 (FcgammaRII), CD32 (FcgammaRII), and CD16 (FcgammaRIII) are the immunoglobulin superfamily. CD64 has a high affinity for IgG with three and CD16 have low affinities with two Ig-like domains. Two genes encodes.

**Species Reactivity** 

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

**Applications Key** 

**IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

M: Mouse

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