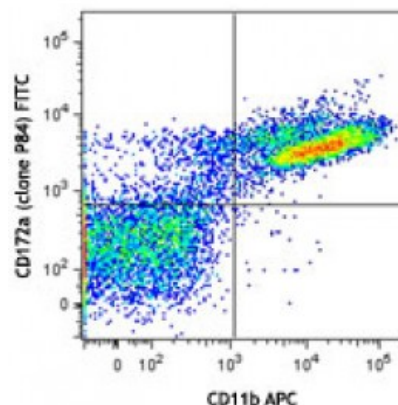


FITC anti-mouse CD172a (SIRPα)

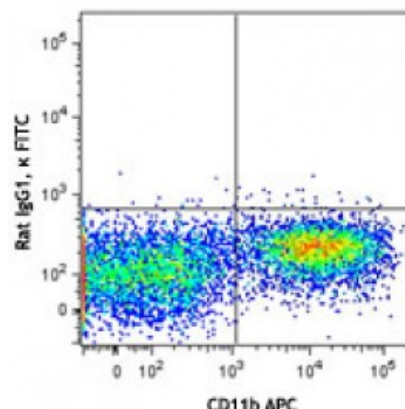
Catalog # / Size:	1320030 / 100 µg 1320025 / 25 µg
Clone:	P84
Isotype:	Rat IgG1, κ
Immunogen:	Mouse brain membrane protein
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 mouse bone marrow cells were stained with CD11b APC and CD172a (clone P84) FITC (top) or rat IgG1, κ FITC isotype control (bottom). Data shown was gated on the myeloid cell population.

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: blocking SIRPα interaction with CD474, <i>in vivo</i> blocking of dendritic cell migration ³ , enhancing of macrophage phagocytosis ^{2,4} , immunohistochemical staining of cerebellum frozen sections ¹ , and immunoprecipitation ^{2,4} .
Application References:	1. Comu S, <i>et al.</i> 1997. <i>J. Neurosci.</i> 17:8702. (IHC) 2. Gresham HD, <i>et al.</i> 2000. <i>J. Exp. Med.</i> 191:515. (IP) 3. Fukunaga A, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:4091. (Block) 4. Oldenborg PA, <i>et al.</i> 2000. <i>Science</i> 288:2051. (Block, IP)



Description: CD172a, also known as SIRPα, is a type I transmembrane protein with one V-set Ig-like and two C-set Ig-like domains in the extracellular portion, and two ITIM motifs and a proline-rich region in the cytoplasmic tail. CD172a is expressed by monocytes, macrophages, myeloid cells, and neuronal tissue. The phosphorylation of SIRPα ITIMs induces the recruitment and activation of the

tyrosine phosphatases PTPN6 and PTPN11, resulting in the negative regulation of several biological processes. The ligands of CD172a are CD47, SP-A, and SP-D.

Antigen
References:

1. Zhao XW, *et al.* 2011. *P. Natl. Acad. Sci. USA* 108:18342.
2. Verjan-Garcia N, *et al.* 2011. *J. Immunol.* 187:2268.
3. Sato-Hashimoto M, *et al.* 2011. *J. Immunol.* 187:291.
4. Raymond M,