

## **Product Data Sheet**

## PerCP/Cy5.5 anti-human CD192 (CCR2)

Catalog # / Size:	335303 / 25 tests						
Clone:	TG5/CCR2						
Isotype:	Mouse IgG2b, κ						
Immunogen:	CCR2 transfectants	h.		1			
Reactivity:	Human	ę.		A.			
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.	the Cell N		Λ	ļ		
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Rela	1	<u>( )</u>			
Storage:	The CD192 antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>	10	op	10 <sup>1</sup>	10 <sup>2</sup>	103	 10 <sup>4</sup>
Application	IS:	ц	luman	Log Fluo	rescence l	ntensity	tos
Applications:	FC - Quality tested	st	ained	with TG	5/CCR2	PerCP/C	Cy5.5
Recommended Usage:	Each lot of this CD192 antibody is quality control tested by immunofluoresce For immunofluorescent staining, the suggested use of this reagent is 5 $\mu$ l pe blood. It is recommended that the reagent be titrated for optimal performance	nt stai millic e for e	ning v on cell each a	vith flov s or 5 µ pplicati	v cytom Il per 10 ion.	etric and )0 µl of \	alysis. whole

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

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## Application References: 1. Schwartz EA, et al. 2010 Arterioscler Thromb Vasc Biol. 30:802. PubMed

Description: CCR2 is a chemokine receptor that binds monocyte chemoattractant proteins (MCP-1, 2, 3 and 4). Two spliced variants were initially described for CCR2 (CCR2A and CCR2B). These variants differ in their terminal carboxyl tails (1). Monocyte adhesion to the arterial endothelium and subsequent migration into the intima are central events in the pathogenesis of atherosclerosis. CCR2 and MCP-1 has been associated to atheroscletotic plaques (2, 3). MCP-1 is induced by modified-LDL in endothelial cells, and may trigger firm adhesion of monocytes to vascular endothelium under flow. Local overexpression of MCP-1 at vessel wall induces infiltration of macrophages and formation of atherosclerotic lesion (4). Absence of MCP-1 reduces the lesion size in MCP-1<sup>&minus;/&minus;</sup> apoE<sup>&minus;/&minus;</sup> mice in the apoE gene deleted mouse atherosclerosis model (5, 6). Obesity induces an inflammation state that is implicated in many clinically important complications, including insulin resistance, diabetes, atherosclerosis and non-alcoholic fatty liver disease. CCR2 influences the development of obesity and associated adipose tissue inflammation (7).

## **Related Products: Product** Clone PerCP/Cy5.5 Mouse IgG2b, κ Isotype Ctrl MPC-11 Cell Staining Buffer RBC Lysis Buffer (10X) Human TruStain FcX™ (Fc Receptor Blocking Solution)





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