Technical Data Sheet PE Mouse Anti-Human CD114

Product Information	
Material Number:	554538
Alternate Name:	G-CSF Receptor
Size:	0.2 mg
Concentration:	0.2 mg/ml
Clone:	LMM741
Immunogen:	G-CSFR cDNA transfected cells.
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI MA98
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The LMM741 antibody reacts with the 150 kD human granulocyte-colony stimulating factor receptor (G-CSFR) also known as CD114. Cell surface G-CSFR is expressed by neutrophils, myeloid leukemias, endothelium, platelets, and placenta. The immunogen used to generate this hybridoma was cells transfected with an expression vector containing a full-length cDNA encoding the G-CSF-receptor.



Profile of CD114 on BAF19 cells analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application									
Flow cytometry				I	Routinely Tested				
Suggeste	d Compani	on Product	S						
Catalog Number		Name				Size	Clone		
554680 PE Mouse IgG1, κ Isotype Control						0.1 mg	MOPC-21		
BD Biosci	ences								
bdbiosciences.	com								DT
United States 877.232.8995	Canada 888.259.0187	Europe 32.53.720.550	Japan 0120.8555.90	Asia Pacific 65.6861.0633	Latin America 55.11.5185.999	(Caribbean 95			ΒL
For country-sp	ecific contact inf	ormation, visit	bdbiosciences.co	m/how_to_orde	r/				
of any patents. B use of our produc product or as a co written authoriza For Research Use BD, BD Logo and	nformation disclose D Biosciences will m cts. Purchase does n omponent of anoth ation of Becton Dick Only. Not for use in all other trademark	a nerein is not to b to the held responsi ot include or carry er product. Any use inson and Compan diagnostic or there is are the property	e construed as a reco ble for patent infrin, any right to resell or e of this product oth y is strictly prohibite apeutic procedures. of Becton, Dickinsor	ommendation to Us gement or other vio r transfer this produ- er than the permitt ed. Not for resale. n and Company. ©20	e the above product olations that may oc ct either as a stand- red use without the 008 BD	t in violation cur with the alone express			

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
- 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Guesdon JL, Ternynck T, Avrameas S. The use of avidin-biotin interaction in immunoenzymatic techniques. *J Histochem Cytochem.* 1979; 27(8):1131-1139. (Biology) Nicholson SE, Oates AC, Harpur AG, Ziemiecki A, Wilks AF, Layton JE. Tyrosine kinase JAK1 is associated with the granulocyte-colony-stimulating factor

Nicholson SE, Oates AC, Harpur AG, Ziemiecki A, Wilks AF, Layton JE. Tyrosine kinase JAK1 is associated with the granulocyte-colony-stimulating factor receptor and both become tyrosine-phosphorylated after receptor activation. *Proc Natl Acad Sci U S A*. 1994; 91(8):2985-2988. (Biology)