

CD25 Monoclonal Antibody (eBio7D4 (7D4)), Biotin, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgM, kappa
Recommended Isotype Control	Rat IgM Isotype Control (eBRM), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio7D4 (7D4)
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_891432

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	7 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

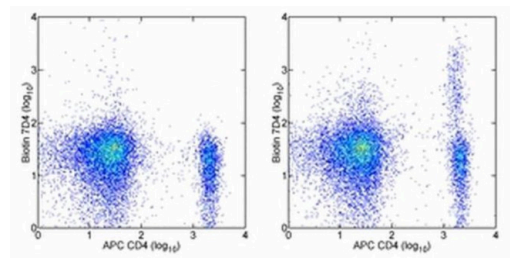
Product Specific Information

Description: The eBio7D4 antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor α chain (IL-2R α). CD25 is expressed by early progenitors of the T and B lineage, as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor β chain) and CD132 (common γ chain) to form the high affinity IL-2 receptor. CD25 plays a role in lymphocyte differentiation and activation/proliferation. The epitopes recognized by eBio3C7, PC61.5 and eBio7D4 are all different allowing for depletion with one antibody (typically PC61.5) followed by subsequent detection with another one. eBio7D4 has been reported to block IL-2 binding but can be overcome by additional IL-2. The monoclonal antibody PC61.5 (Product # 16-0251) is recommended for in vivo studies.

Purity is > 95% IgG2a as determined by SDS-gel electrophoresis. Endotoxin: <0.5 EU/µg

Applications Tested: This eBio7D4 (7D4) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.



CD25 Antibody (13-0252-85) in Flow
Staining of C57BL/6 splenocytes with Anti-Mouse CD4 APC (Product # 17-0042-82) and 0.06 µg of Rat IgM kappa Isotype Control Biotin (Product # 13-4341-81) (left) or 0.06 µg of Anti-Mouse CD25 Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

8 References

Flow Cytometry (7)

JCI insight	Year 2021
Metabolic preconditioning in CD4+ T cells restores inducible immune tolerance in lupus-prone mice.	
"Published figure using CD25 monoclonal antibody (Product # 13-0252-82) in Flow Cytometry"	
Authors: Wilson CS,Stocks BT,Hoopes EM,Rhoads JP,McNew KL,Major AS,Moore DJ	
Journal of translational autoimmunity	Year 2020
Axenic <i>Caenorhabditis elegans</i> antigen protects against development of type-1 diabetes in NOD mice.	
"Published figure using CD25 monoclonal antibody (Product # 13-0252-82) in Flow Cytometry"	
Authors: Jackson-Thompson BM,Torrero M,Mitre BK,Long J,Packiam M,Mitre E	

View more Flow references on thermofisher.com

Miscellaneous PubMed (1)

Journal of immunology (Baltimore, Md. : 1950)	Year 2011
Hepatic stellate cells function as regulatory bystanders.	
"13-0252 was used in Magnetic cell separation to suggest that HSC can function as regulatory bystanders, and therefore, by promoting Tregs and suppressing Th17 differentiation, they might represent key players in the mechanism that drives liver-induced tolerance."	Species Mouse
Authors: Ichikawa S,Mucida D,Tyznik AJ,Kronenberg M,Cheroutre H	

More applications with references on thermofisher.com

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