

# FAS Monoclonal Antibody (DX2), Pacific Blue™

Catalog NumberMHCD9528

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * Assay-dependent
Clone	DX2	Published Applications	
Immunogen	Human CD95.	Flow Cytometry (Flow)	See 4 publications below
Conjugate	Pacific Blue™	Miscellaneous PubMed (Misc)	See 1 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	purified		
Storage buffer	PBS with BSA		
Contains	0.1% sodium azide		
Storage Conditions	4° C		

Background/Target Information

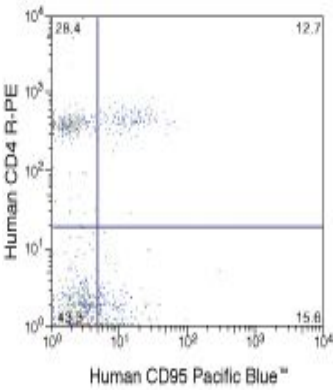
FAS (Fas, CD95, APO-1) is a 46 kDa transmembrane glycoprotein that functions as a cell death receptor of the TNFR (tumor necrosis factor receptor) superfamily. FAS also exists in a soluble form that weight approximately 26kDa. Stimulation of FAS results in aggregation of its intracellular FAS-associated death domains (FADD), formation of the death-inducing signaling complex (DISC) and activation of caspases. The auto-proteolytic processing of the caspases in the complex trigger a downstream cascade that leads to apoptosis. FAS has been shown to activate NF-kappaB, MAPK3 /ERK1, MAPK8/JNK, and is involved in transducing the proliferating signals in normal diploid fibroblast and T cells. At least eight alternatively spliced transcript variants encoding seven distinct isoforms have been described. The isoforms lacking the transmembrane domain may negatively regulate the apoptosis mediated by the full-length isoform. The Fas/Fas ligand system has been shown to play a role in a number of human diseases such as AIDS, hepatitis and cancer. It is also assumed that induction of apoptosis through FAS ligand pathway is predominantly involved in anti-viral immune responses.

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**FAS Antibody (MHCD9528) in Flow**  
Flow Cytometry analysis using a FAS monoclonal antibody (Product # MHCD9528).

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PubMed References For FAS Monoclonal Antibody (DX2), Pacific Blue™

4 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	MHCD9528 was used in flow cytometry to identify alterations in genes involved in antigen presentation, chromosome integrity, transcriptional regulation, and ubiquitination in Hodgkin and Reed-Sternberg cells
	Blood ( 2015; 125: 1061) <b>"Flow sorting and exome sequencing reveal the oncogenome of primary Hodgkin and Reed-Sternberg cells."</b> Author(s):Reichel J,Chadburn A,Rubinstein PG,Giulino-Roth L,Tam W,Liu Y,Gaiolla R,Eng K,Brody J,Inghirami G,Carlo-Stella C,Santoro A,Rahal D,Totonchy J,Elemento O,Cesarman E,Roshal M PubMed Article URL: <a href="http://dx.doi.org/10.1182/blood-2014-11-610436">http://dx.doi.org/10.1182/blood-2014-11-610436</a>
Not Applicable / Not Cited	MHCD9528 was used in flow cytometry to assess the antigenic threshold for the maintenance of PD-1 expression on virus-specific T cells
	Journal of immunology (Baltimore, Md. : 1950) ( 2010; 184: 476) <b>"Inhibitory TCR coreceptor PD-1 is a sensitive indicator of low-level replication of SIV and HIV-1."</b> Author(s):Salisch NC,Kaufmann DE,Awad AS,Reeves RK,Tighe DP,Li Y,Platak M,Lifson JD,Evans DT,Pereyra F, Freeman GJ,Johnson RP PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.0902781">http://dx.doi.org/10.4049/jimmunol.0902781</a>
Human / Not Cited	MHCD9528 was used in flow cytometry to characterize two cases of anaplastic large cell lymphoma using flow cytometry.
	Cytometry. Part B, Clinical cytometry ( 2015; 88: 58) <b>"Flow cytometry of ALK-negative anaplastic large cell lymphoma of breast implant-associated effusion and capsular tissue."</b> Author(s):Wu D,Allen CT,Fromm JR PubMed Article URL: <a href="http://dx.doi.org/10.1002/cyto.b.21178">http://dx.doi.org/10.1002/cyto.b.21178</a>
Human / Not Cited	MHCD9528 was used in Flow cytometry/Cell sorting to suggest an important role for CD8 regulatory T-cells in suppressing antiviral immunity during immunodeficiency virus infections.
	Journal of immunology (Baltimore, Md. : 1950) ( 2010; 184: 1690) <b>"Expansion of FOXP3+ CD8 T cells with suppressive potential in colorectal mucosa following a pathogenic simian immunodeficiency virus infection correlates with diminished antiviral T cell response and viral control."</b> Author(s):Nigam P,Velu V,Kannanganat S,Chennareddi L,Kwa S,Siddiqui M,Amara RR PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.0902955">http://dx.doi.org/10.4049/jimmunol.0902955</a>

1 Miscellaneous PubMed References

Species / Dilution	Summary
Human / Not Cited	MHCD9528 was used in flow cytometry to characterize Tregs from older subjects and mice.
	Journal of immunology (Baltimore, Md. : 1950) ( 2008; 181: 1835) <b>"Functional regulatory T cells accumulate in aged hosts and promote chronic infectious disease reactivation."</b> Author(s):Lages CS,Suffia I,Velilla PA,Huang B,Warshaw G,Hildeman DA,Belkaid Y,Chougnet C PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.181.3.1835">http://dx.doi.org/10.4049/jimmunol.181.3.1835</a>

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