Datasheet for ABIN2689508

anti-FOXP1 antibody

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Overview

Quantity:	50 µg
Target:	FOXP1
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FOXP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Intracellular Staining (ICS)

Product Details

Brand:	BD Pharmingen™
Clone:	JC12
Isotype:	IgG2a kappa
Characteristics:	The JC12 monoclonal antibody specifically binds to Forkhead box protein P1 (FoxP1). FoxP1 belongs to subfamily P of the forkhead box (FOX) winged-helix transcription factor family. It plays a variety of roles such as regulating the formation of lymphoid, lung, brain and heart tissues. FoxP1 is critical in regulating early B cell development and is also required for maintenance of naive T cell quiescence, and monocyte differentiation and macrophage function. Aberrant expression of FOXP1 has been linked with mucosa-associated lymphoid tissue lymphoma and diffuse-large B cell lymphoma. Panel 1. Western blot analysis of FoxP1 expression in human Ramos cell lysate. Lysate prepared from cells of the human Ramos (Burkitt's lymphoma, ATCC CRL-1596) cell line was electrophoresed (SDS-PAGE), transferred to

Product Details

	a polyvinylidene difluoride membrane, and Western blotted using Purified Anti-FoxP1 antibody (Cat. No. 564213, 2 µg/mL, overnight). Human Forkhead box protein P1 was identified as a band whose size ranged from 75-85 kDa. Panel 2. Immunohistochemical staining of acetone-fixed human tonsil for FoxP1. Acetone-fixed, frozen human tonsil sections were stained with either Purified Mouse IgG2a, κ Isotype Control (Cat. No. 554126) or Purified Mouse Anti-FoxP1 antibody. A three-step staining procedure using Biotin Goat Anti-Mouse Ig (Cat. No. 550337), Streptavidin-HRP (Cat. No.550946), and the DAB Substrate Kit (Cat. No. 550880) was used to develop the primary staining reagents. The FoxP1-specific antibody primarily stained some lymphocytes and epithelial cells with a nuclear pattern. Original magnification: 20X. Panel 3. Immunohistochemical staining of formalin-fixed human tonsil for FoxP1. Following antigen retrieval with BD Pharmingen™ Retrievagen A Buffer (Cat. No. 550524), the formalin-fixed paraffin-embedded tonsil sections were stained with either Purified Mouse IgG2a κ Isotype Control or Purified Mouse Anti-Human FoxP1 antibody. A three-step staining procedure was similarly used as before to develop the primary staining reagents. The FoxP1-specific antibody primarily stained some lymphocytes with a nuclear pattern. Original magnification: 40X. BD Pharmingen™ Purified Mouse Anti-FoxP1 - Purified - Clone JC12 - Isotype Mouse IgG2a, κ - Reactivity Ms, Hu - 50 µg
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	FOXP1
Alternative Name:	FoxP1 (FOXP1 Products)
Background:	Synonyms: Forkhead box protein P1, hFKH1B, HSPC215, QRF1, 12CC4
Molecular Weight:	75-85 kDa
Pathways:	Chromatin Binding, Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:

Sagardoy, Martinez-Ferrandis, Roa, Bunting, Aznar, Elemento, Shaknovich, Fontán, Fresquet, Perez-Roger, Robles, De Smedt, Sagaert, Melnick, Martinez-Climent: "Downregulation of FOXP1 is required during germinal center B-cell function." in: **Blood**, Vol. 121, Issue 21, pp. 4311-20, (2013) (PubMed).

Katoh, Igarashi, Fukuda, Nakagama, Katoh: "Cancer genetics and genomics of human FOX family genes." in: **Cancer letters**, Vol. 328, Issue 2, pp. 198-206, (2012) (PubMed).

Feng, Wang, Takata, Day, Willen, Hu: "Transcription factor Foxp1 exerts essential cell-intrinsic regulation of the quiescence of naive T cells." in: **Nature immunology**, Vol. 12, Issue 6, pp. 544-50, (2011) (PubMed).

Brown, Ashe, Leich, Burek, Barrans, Fenton, Jack, Pulford, Rosenwald, Banham: "Potentially oncogenic B-cell activation-induced smaller isoforms of FOXP1 are highly expressed in the activated B cell-like subtype of DLBCL." in: **Blood**, Vol. 111, Issue 5, pp. 2816-24, (2008) (PubMed).

Shi, Sakuma, Mooroka, Liscoe, Gao, Croce, Sharma, Kaplan, Greaves, Wang, Simon: "Down-regulation of the forkhead transcription factor Foxp1 is required for monocyte differentiation and macrophage function." in: **Blood**, Vol. 112, Issue 12, pp. 4699-711, (2008) (PubMed).

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