.-online.com antibodies

Datasheet for ABIN969028 anti-CD80 antibody

2 Images

2 Publications



Overview

Quantity:	100 µL
Target:	CD80
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD80 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of CD80 expressed in E. coli.
Clone:	2A2
lsotype:	lgG1
Purification:	purified

Target Details

Target:	CD80
Alternative Name:	CD80 (CD80 Products)
Background:	Description: The protein CD80 (Cluster of Differentiation 80) is a molecule found on activated B cells and monocytes which provides a costimulatory signal necessary for T cell activation and
	survival. It is also known as B7.1. Its principal mode of action is by binding to CD28. Along with
	CD86, these molecules provide the necessary stimuli to prime T cells against antigens

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN969028 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

	presented by antigen-presenting cells. CD80 and CD86 also bind to CTLA-4, a cell surface
	molecule expressed on activated T cells. Interactions between CD80 or CD86 with CTLA-4
	decrease the response of T cells. Mouse research by scientists at Emory University showed
	that estrogen-related bone loss is linked to recently discovered pathways involving various
	proteins, such as CD80 and other functions. In a nutshell, reactive oxygen stimulates dendritic
	cells, which activate other immune cells to up-regulate production of CD80, the molecule co-
	responsible for T cell activation. "When this pathway is activated, it leads to increased T cell
	TNF production and ultimately to bone loss." In turn, T cells produce a protein, Tumor Necrosis
	Factor, which increases the formation of osteoclasts in rodents and humans. Osteoclasts
	cause minerals to be released from the bone, so that calcium is taken into the bloodstream to
	be used for other functions of the body. Osteoclast differentiation is inhibited by
	osteoprotegerin, Estrogen stimulates osteoprotegerin production.
	Aliases: CD28LG, LAB7, B7.1
Molecular Weight:	55 kDa
Gene ID:	941
HGNC:	941
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway, Positive Regulation of Immune Effector Process, Cancer Immune
	Checkpoints
Anglianting Dataila	
Application Details	
Application Notes:	ELISA: 1:10000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % 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/-20 °C

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN969028 | 09/12/2023 | Copyright antibodies-online. All rights reserved. Storage Comment:

4°C, -20°C for long term storage

Publications

Product cited in:

Mishra, Thakur, Somal, Parmar, Yadav, Bharati, Bharti, Paul, Verma, Chouhan, Sharma, Singh, González, DOcchio, Sarkar et al.: "Expression and localization of angiopoietin family in buffalo ovarian follicles during different stages of development and modulatory role of angiopoietins on steroidogenesis and survival of cultured ..." in: **Theriogenology**, Vol. 86, Issue 7, pp. 1818-33, (2016) (PubMed).

Mishra, Parmar, Yadav, Reshma, Bharati, Bharti, Paul, Chouhan, Taru Sharma, Singh, Sarkar et al.: "Expression and localization of angiopoietin family in corpus luteum during different stages of oestrous cycle and modulatory role of angiopoietins on steroidogenesis, angiogenesis and survivability ..." in: **Reproduction in domestic animals = Zuchthygiene**, Vol. 51, Issue 6, pp. 855-869, (2016) (PubMed).

Images



Immunofluorescence

Image 1. Confocal immunofluorescence analysis of BCBL-1 cells using anti-CD80 monoclonal antioby(green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN969028 | 09/12/2023 | Copyright antibodies-online. All rights reserved.



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-

embedded human Tonsil tissues using anti-CD80 mAb