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Datasheet for ABIN678683

anti-CD80 antibody (AA 251-321)

2 Images

5 Publications

Overview

Quantity:	100 µL
Target:	CD80
Binding Specificity:	AA 251-321
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD80 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat CD80
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	CD80
Alternative Name:	CD80 (CD80 Products)

Target Details

Background: Synonyms: B7-1, Activation B7 1 antigen, Activation B71 antigen, B lymphocyte activation antigen B7, B7, BB1, CD 80, CD28 antigen ligand 1 B7 1 antigen, CD28 antigen ligand 1 B71 antigen, CD28LG, CD28LG1, CD80 antigen, CD80 antigen precursor, CD80 Molecule, Costimulatory factor CD80, CTLA 4 counter receptor B7.1, CTLA-4 counter-receptor B7.1, LAB 7, LAB7, T lymphocyte activation antigen CD80, CD80_MOUSE.

Background: CD80 is a member of the Ig superfamily and serves as the ligand for two T cell molecules, CD28 and CTLA4. Interactions between CD28 and CD80 on activated B cells result in enhanced T cell activation. CD80 is rapidly induced on the surface of in vitro activated B cells, Epstein Barr Virus (EBV) transformed B cell lines, Burkitts lymphoma cell lines, freshly isolated follicular B lymphoma cells, T cells, and monocytes. It is also expressed at high levels in dendritic cells. It reacts weakly with a small proportion of non activated normal B cells and with HTLV1 infected T cells. CD80 does not react with peripheral monocytes, resting and activated normal T cells, T cell lines and T cell clones, nor with myelomonocytic cell lines.

Gene ID: 25408

UniProt: [G3V671](#)

Pathways: [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Positive Regulation of Immune Effector Process](#), [Cancer Immune Checkpoints](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200
ICC 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

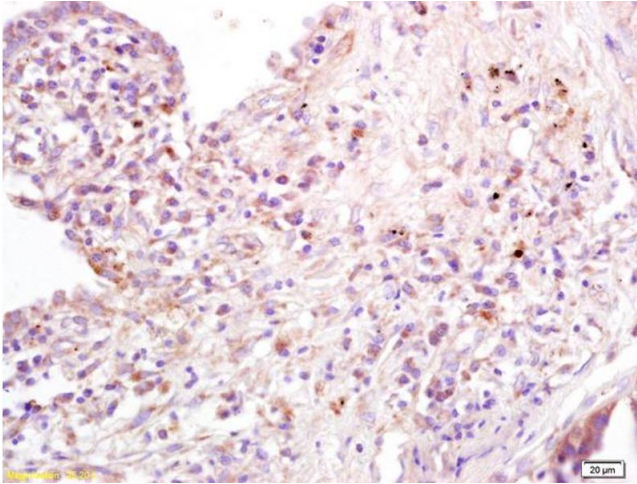
Concentration: 1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

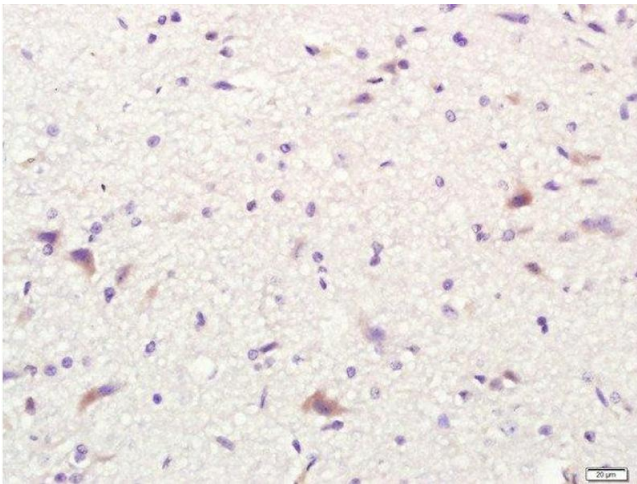
Publications

Product cited in:	<p>Han, Wang, Qin, Xia, Wu: "LPS alters the immuno-phenotype of glioma and glioma stem-like cells and induces in vivo antitumor immunity via TLR4." in: Journal of experimental & clinical cancer research : CR, Vol. 36, Issue 1, pp. 83, (2018) (PubMed).</p> <p>da Silva Junior, Mesquita-Ferrari, França, Andreo, Bussadori, Fernandes: "Modulating effect of low intensity pulsed ultrasound on the phenotype of inflammatory cells." in: Biomedicine & pharmacotherapy, Vol. 96, pp. 1147-1153, (2017) (PubMed).</p> <p>Chen, Li, Zhao, Liang, Ma, Li, Zhu: "Prevention of ultraviolet radiation-induced immunosuppression by sunscreen in Candida albicans-induced delayed-type hypersensitivity." in: Molecular medicine reports, Vol. 14, Issue 1, pp. 202-8, (2016) (PubMed).</p> <p>Ju, Xing, Yang, Zheng, Jia, Zhang, Ren: "An effective cytokine adjuvant vaccine induces autologous T-cell response against colon cancer in an animal model." in: BMC immunology, Vol. 17, Issue 1, pp. 31, (2016) (PubMed).</p> <p>Wang, Hu, Wang, Gu, Gao, Cao, Zheng: "5-Aminolevulinic acid-mediated sonodynamic therapy reverses macrophage and dendritic cell passivity in murine melanoma xenografts." in: Ultrasound in medicine & biology, Vol. 40, Issue 9, pp. 2125-33, (2014) (PubMed).</p>
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Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-B7-1/CD80 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded rat brain tissue, Antigen retrieval by boiling in sodium citrate buffer(pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Rabbit Anti-CD80 Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary and DAB staining