

Mouse Anti-CD80/B7-1 [C80/3544]: MC0308, MC0308RTU7

Intended Use: For Research Use Only

Description: T cell proliferation and lymphokine production are triggered by occupation of the TCR by antigen, followed by a costimulatory signal that is delivered by a ligand expressed on antigen presenting cells. The B7-related cell surface proteins CD80 (B7-1) and CD86 (B7-2) are expressed on antigen presenting cells bind the homologous T cell receptors CTLA-4 (cytotoxic T lymphocyte-associated protein-4) and CD28 and trigger costimulatory signals for optimal T cell activation. CTLA-4 shares 31% overall amino acid identity with CD28 and it has been proposed that CD28 and CTLA-4 are functionally redundant. SLAM is a novel receptor on T cells that, when engaged, potentiates T cell expansion in a CD28-independent manner. B7, also designated BB1, is another ligand or counter receptor for CD28 and CTLA-4 that is expressed on the antigen-presenting cell.

Specifications:

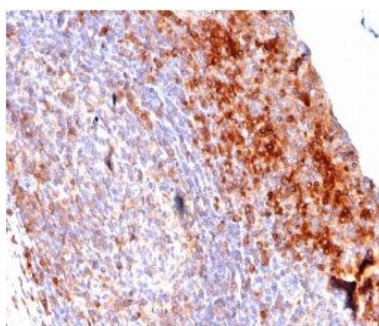
Clone: C80/3544
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Immunogen: Recombinant fragment of human CD80 protein aa 35-142
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA
 Package:

Description	Catalog No.	Size
CD80/B7-1 Concentrated	MC0308	1 ml
CD80/B7-1 Prediluted	MC0308RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Spleen, tonsil or thymus, Raji or Ramos cells
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD80 using DAB

References:

1. Preclinical imaging of the co-stimulatory molecules CD80 and CD86 with indium-111-labeled belatacept in atherosclerosis. Meletta R, et al. EJNMMI Res 6:1, 2016.
2. The costimulatory receptor B7-1 is not induced in injured podocytes. Baye E, et al. Kidney Int 90:1037-1044, 2016.