

Store at
-20C
#91882**CD86 (E2G8P) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W, IHC-Bond, IHC-P, IF-IC | H Mk | Endogenous | 60-85 | Rabbit IgG | #P42081 | 942 |

Product Usage Information**Application**

Western Blotting
IHC Leica Bond
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50 - 1:200
1:50 - 1:200
1:100 - 1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #76755.

Specificity/Sensitivity

CD86 (E2G8P) Rabbit mAb recognizes endogenous levels of total CD86 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro239 of human CD86 protein.

Background

CD80 (B7-1, BB1) and CD86 (B7-2, B70) are members of the B7 family of cell surface ligands that regulate T cell activation and immune responses. CD80 is expressed on activated antigen presenting cells, including dendritic cells, B cells, monocytes, and macrophages. CD86 is expressed on resting monocytes, dendritic cells, activated B lymphocytes, and can be further upregulated in the presence of inflammation (1-3). CD80 and CD86 are ligands for CD28, which functions as a T cell costimulatory receptor. Interaction of CD28 with CD80 or CD86 provides the second signal required for naïve T cell activation, T cell proliferation, and acquisition of effector functions (3-7). Alternatively, CD80 and CD86 also act as ligands to CTLA-4, which results in the downregulation of T cell activity (3,7-9).

Background References

- Freeman, G.J. et al. (1989) *J Immunol* 143, 2714-22.
- Azuma, M. et al. (1993) *Nature* 366, 76-9.
- Adams, A.B. et al. (2016) *J Immunol* 197, 2045-50.
- Linsley, P.S. et al. (1990) *Proc Natl Acad Sci U S A* 87, 5031-5.
- Gimmi, C.D. et al. (1991) *Proc Natl Acad Sci U S A* 88, 6575-9.
- Harding, F.A. et al. (1992) *Nature* 356, 607-9.
- Collins, A.V. et al. (2002) *Immunity* 17, 201-10.
- Linsley, P.S. et al. (1991) *J Exp Med* 174, 561-9.
- Krummel, M.F. and Allison, J.P. (1995) *J Exp Med* 182, 459-65.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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