

# Anti-CD80 Antibody [8-E5-R] - BSA and Azide free HA610122



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|----------------------------|---|
| <b>Product Type:</b>       | Recombinant Mouse monoclonal IgG1, primary antibodies |
| <b>Species reactivity:</b> | Human   |
| <b>Applications:</b>       | WB  |
| <b>Molecular Wt:</b>       | Predicted band size: 33 kDa                           |
| <b>Clone number:</b>       | 8-E5-R  |

**Description:** CD80/B7-1 is a molecule found on activated B cells and monocytes which provides a costimulatory signal necessary for T cell activation and survival. After engagement of T-cell receptor with antigen in association with major histocompatibility complex class II, a second signal mediated through the binding of B7 to CD28 greatly upregulates the production of multiple lymphokines. B7-1 is a costimulatory molecule for the activation of both CD4+ and CD8+ T lymphocytes that prevents the induction of clonal anergy. Thus, the transfer of B7-1 genes into tumor cells can induce protective immunity and lead to tumor rejection of some tumors in model systems of in vivo tumor growth.

**Immunogen:** Synthetic peptide within human CD80 aa 74-118 / 288.

**Positive control:** Human brain tissue lysates.

**Subcellular location:** Membrane.

**Database links:** SwissProt: P33681 Human

**Recommended Dilutions:**

**WB** 1:1,000

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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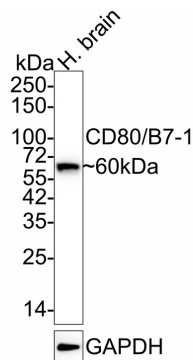
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## Images



**Fig1:** Western blot analysis of CD80 on human brain tissue lysates with Mouse anti-CD80 antibody (HA610122) at 1/1,000 dilution.

Lysates/proteins at 40 µg/Lane.

Predicted band size: 33 kDa

Observed band size: 60 kDa

Exposure time: 24 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610122) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Tekguc M et al. Treg-expressed CTLA-4 depletes CD80/CD86 by trogocytosis, releasing free PD-L1 on antigen-presenting cells. Proc Natl Acad Sci U S A. 2021 Jul
2. Sugiura D et al. PD-1 agonism by anti-CD80 inhibits T cell activation and alleviates autoimmunity. Nat Immunol. 2022 Mar

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