

Anti-Glycoprotein D of HSV [E317] Standard Size Ab00442-10.0

Isotype and Format: Human IgG1, Kappa

Clone Number: E317

Alternative Name(s) of Target: Envelope glycoprotein D; gD **UniProt Accession Number of Target Protein:** Q69091

Published Application(s): Blocking, IP, ELISA

Published Species Reactivity: Herpes Simplex Virus

Immunogen: Herpes simplex virus 1.

Specificity: This antibody binds specifically to the glycoprotein D of HSV. The epitope core structure maps to the external surface of gD, corresponding to the binding sites of two receptors, herpesvirus entry mediator (HVEM) and nectin-1, which mediate HSV infection. E317 directly recognizes the gD-nectin-1 interface and occludes the HVEM contact site of gD to block its binding to either receptor. The binding of E317 to gD also prohibits the formation of the N-terminal hairpin of gD for HVEM recognition. The major E317-binding site on gD overlaps with either the nectin-1-binding residues or the neutralizing antigenic sites identified thus far (Tyr38, Asp215, Arg222 and Phe223). The epitopes of gD for E317 binding are highly conserved between two types of human herpesvirus (HSV-1 and HSV-2).

Application Notes: This antibody binds to glycoprotein D of HSV and blocks its intereaction with human cellular receptors. Glycoprotein D binds to cell entry receptors TNFRSF14/HVEM and others, triggering fusion with the host membrane.

Antibody First Published in: Lee et al. Structural basis for the antibody neutralization of herpes simplex virus. Acta Cystallography Section D Biological Crystallography 2013; 69(Pt19):1935-1945 PMID:24100313 **Note on publication:** Describes the generation of a monoclonal antibody against HSV glycoprotein D and subsequent crystallisation as well as a discussion of its potential therapeutic use.

Product Form

Size: 200 μg Purified antibody.

Purification: Protein A affinity purified **Supplied In:** PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration:

1 mg/ml.	
Important note - This product is for respression procedures for humans or animals.	search use only. It is not intended for use in therapeutic or diagnostic
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