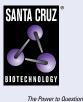
SANTA CRUZ BIOTECHNOLOGY, INC.

HSV-1/2 gD (2C10): sc-56988



BACKGROUND

Membrane fusion is crucial for the entry, spread and formation of enveloped viruses, such as herpes simplex virus, and is mediated by envelope glycoproteins. Two serotypes of the herpes simplex virus, HSV-1 (also known as type 1 or oral) and HSV-2 (type 2 or genital), have been shown to encode at least ten glycoproteins, four of which are necessary and sufficient to facilitate fusion. These four alycoproteins include alycoprotein B (gB), alycoprotein D (gD), glycoprotein H (gH) and glycoprotein L (gL). The fusion event is dependent upon the expression of a gD receptor on target cell membranes and does not require the presence of cell-surface glycosaminoglycans. HSV-1/2 gD (glycoprotein D) specifically allows a stabile connection to cellular receptors. Late adsorption to host cell membranes is correlated to a conformation change of qD occurring after receptor binding, followed by interaction of qD with the gH/gL heterodimer.

REFERENCES

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SOURCE

HSV-1/2 gD (2C10) is a mouse monoclonal antibody raised against Herpes virus.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 50 μ g lgG_{2a} in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HSV-1/2 gD (2C10) is recommended for detection of HSV-1 and HSV-2 gD of herpes simplex virus 1 and 2 by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of HSV-1/2 gD: 59 kDa.

SELECT PRODUCT CITATIONS

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- 3. Cheshenko, N., et al. 2013. HSV activates Akt to trigger calcium release and promote viral entry: novel candidate target for treatment and suppression. FASEB J. 27: 2584-2599.
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- 7. Cheshenko, N., et al. 2018. Herpes simplex viruses activate phospholipid scramblase to redistribute phosphatidylserines and Akt to the outer leaflet of the plasma membrane and promote viral entry. PLoS Pathog. 14: e1006766.
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STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.



See HSV-1 gD (DL6): sc-21719 for HSV-1 gD antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.