**BACKGROUND**

The 8D6 protein, also known as 8D6A, CD320 or FDC-SM-8D6, is a single pass, type I membrane protein with two low-density lipoprotein receptor ligand binding repeats (LDL-A modules). It is expressed by follicular dendritic cells in the germinal center and acts as a stimulatory signaling molecule. Follicular dendritic cells and T cells interact with germinal center B cells, providing signals for survival, proliferation and differentiation into memory B cells and plasma cells. A disruption of this interaction results in apoptosis of B cells. 8D6 is a growth factor required for plasma cell generation from germinal center B cells. Protein 8D6, together with HCAM (or CD44), plays a significant role in the proliferation of lymphoma cells of germinal center origin. 8D6 is responsible for enhancing proliferation while HCAM inhibits apoptosis.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CD320 (human) mapping to 19p13.2.

**SOURCE**

8D6 (F-12) is a mouse monoclonal antibody raised against amino acids 152-282 mapping at the C-terminus of 8D6 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

8D6 (F-12) is available conjugated to agarose (sc-393892 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393892 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393892 PE), fluorescein (sc-393892 FTC), Alexa Fluor® 488 (sc-393892 AF488), Alexa Fluor® 546 (sc-393892 AF546), Alexa Fluor® 594 (sc-393892 AF594) or Alexa Fluor® 647 (sc-393892 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393892 AF680) or Alexa Fluor® 790 (sc-393892 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

8D6 (F-12) is recommended for detection of 8D6 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for 8D6 siRNA (h): sc-106884, 8D6 shRNA Plasmid (h): sc-106884-SH and 8D6 shRNA (h) Lentiviral Particles: sc-106884-V.

Molecular Weight (predicted) of 8D6: 29 kDa.

Molecular Weight (observed) of 8D6: 38 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, SW480 cell lysate: sc-2219 or NCI-H929 whole cell lysate: sc-364786.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG<sub>κ</sub> kappa light chain in 1.0 ml of PBS with 0.1% sodium azide and 0.1% gelatin.

Positive Controls: COLO 320DM cell lysate: sc-2226, SW480 cell lysate: sc-364786.

Molecular Weight (predicted) of 8D6: 29 kDa.

Molecular Weight (observed) of 8D6: 38 kDa.

**STORAGE**

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

**RESEARCH USE**

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

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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