**Z39Ig (6H8): sc-53977**

**BACKGROUND**

Cell adhesion molecules (CAMs) influence cell growth, differentiation, embryogenesis, immune response and cancer metastasis by networking information from the extracellular matrix to the cell. The four major families of cell adhesion molecules are immunoglobulin (Ig) superfamily (calcium-independent transmembrane glycoproteins), integrins (transmembrane non-covalently linked heterodimers of α and β subunits), calcium-dependent cadherins and divalent cation-dependent selectins. Regulation of neuronal synaptic adhesion by CAMs has proven important for learning and memory. Proper embryonic morphogenetic development is also heavily dependent on the regulation of cell adhesion molecules. Mutation of CAM genes has been linked to several forms of cancer, affecting tumor growth and metastasis. Z39Ig is an Ig domain cell adhesion molecule detected in all human tissue but mainly expressed in fetal human tissues, adult lungs and placenta. The Z39Ig gene is localized in the pericentromeric region of human chromosome X.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: VSIG4 (human) mapping to Xq12.

**SOURCE**

Z39Ig (6H8) is a mouse monoclonal antibody raised against Z39Ig-transfected HeLa cells of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Z39Ig (6H8) is available conjugated to agarose (sc-53977 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53977 HRP), 200 µg/ml, for WB, HRP (Cruz Marker); to either phycocerythrin (sc-53977 PE), fluorescein (sc-53977 FITC), Alexa Fluor® 488 (sc-53977 AF488), Alexa Fluor® 546 (sc-53977 AF546), Alexa Fluor® 594 (sc-53977 AF594) or Alexa Fluor® 647 (sc-53977 AF647), 200 µg/ml, for WB (RGB), IF, HRP (Cruz Marker) and FCM; and to either Alexa Fluor® 680 (sc-53977 AF680) or Alexa Fluor® 790 (sc-53977 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Z39Ig (6H8) is recommended for detection of Z39Ig of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Z39Ig shRNA Plasmid (h): sc-72190, Z39Ig shRNA Plasmid (h): sc-72190-5H and Z39Ig shRNA (h) Lentiviral Particles: sc-72190-V.

Molecular Weight of Z39Ig: 46 kDa.

Positive Controls: THP-1 cell lysate: sc-2238.

**RECOMMENDED SUPPORT REAGENTS**

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

1. Western Blotting: use m-IgG® BP-HRP: sc-516102 or m-IgG® BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz®Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgG® BP-FITC: sc-516140 or m-IgG® BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**SELECT PRODUCT CITATIONS**


**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.

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