Nectin 1 (CK6): sc-21722

**BACKGROUND**

Nectin is a Ca²⁺-independent homophilic cell adhesion molecule that belongs to the immunoglobulin superfamily. Human Nectin is identical to the poxvirus receptor-related protein (PRR) and is identified to be the α herpesvirus entry mediator. Nectin constitutes a family consisting of at least Nectin 1, 2 and 3. Nectin 2 and 3 are ubiquitously expressed, whereas Nectin 1 is abundantly expressed in the brain. Nectin 1 exists as Nectin 1α and 1β/βHglR, produced by alternative splicing. The cytoplasmic regions of Nectin 1α, but not Nectin 1β/βHglR, have a C-terminal conserved motif (E/A-X-Y-V). This motif interacts with the PDZ domain of the F-Actin-binding protein, afadin, through which it is linked to the Actin cytoskeleton. Nectin 1, also designated HveC/PRR1, β₁/αHglR, have a C-terminal conserved motif (E/A-X-Y-V). This motif interacts with Nectin 1α and 1β/βHglR, produced by alternative splicing. The cytoplasmic regions of Nectin 1α, but not Nectin 1β/βHglR, have a C-terminal conserved motif (E/A-X-Y-V). This motif interacts with the PDZ domain of the F-Actin-binding protein, afadin, through which it is linked to the Actin cytoskeleton. Nectin 1, also designated HveC/PRR1, β₁/αHglR, have a C-terminal conserved motif (E/A-X-Y-V). This motif interacts with the PDZ domain of the F-Actin-binding protein, afadin, through which it is linked to the Actin cytoskeleton.

**CHROMOSOMAL LOCALIZATION**

Genetic locus: NECTIN1 (human) mapping to 11q23.3; Nectin1 (mouse) mapping to 9 A5.1.

**SOURCE**

Nectin 1 (CK6) is a mouse monoclonal antibody raised against the V-domain of Nectin 1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Nectin 1 (CK6) is available conjugated to agarose (sc-21722 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-21722 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-21722 PE), fluorescein (sc-21722 FITC), Alexa Fluor® 488 (sc-21722 AF488) or Alexa Fluor® 647 (sc-21722 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

Nectin 1 (CK6) is recommended for detection of Nectin 1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (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 Nectin 1 siRNA (h): sc-36022, Nectin 1 siRNA (m): sc-36023, Nectin 1 shRNA Plasmid (h): sc-36022-SH, Nectin 1 shRNA Plasmid (m): sc-36023-SH, Nectin 1 shRNA (h) Lentiviral Particles: sc-36022-V and Nectin 1 shRNA (m) Lentiviral Particles: sc-36023-V.

Molecular Weight of Nectin 1: 87 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409 or MEG-01 cell lysates: sc-2283.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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