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Diagnostik & molekulare Diagnostik



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CD32 (AT10): sc-13527

BACKGROUND

CD32 (also designated Fc γ RII) is a low affinity receptor for the Fc fragment of aggregated IgG. CD32 is responsible for the clearance of immunocomplexes by macrophages and also plays an important role in the regulation of antibody production by B cells. IgG can noncooperatively bind either one or two highly glycosylated CD32 molecules, and this binding delivers a negative signal for B cells. CD32 exists as several isoforms that are produced by alternative splicing of three distinct genes, A, B, and C. These isoforms are designated Fc γ RIIA, Fc γ RIIB1, Fc γ RIIB3, and Fc γ RIIC. All isoforms are present on monocytes, placental trophoblasts and endothelial cells. In addition, the Fc γ RIIB forms are present on B lymphocytes, and the Fc γ RIIA and Fc γ RIIC forms are found on neutrophils.

CHROMOSOMAL LOCATION

Genetic locus: FCGR2B (human) mapping to 1q23.3.

SOURCE

CD32 (AT10) is a mouse monoclonal antibody raised against the extracellular domain of CD32 of human origin.

PRODUCT

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

CD32 (AT10) is available conjugated to agarose (sc-13527 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13527 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-13527 PE), fluorescein (sc-13527 FITC), Alexa Fluor[®] 488 (sc-13527 AF488), Alexa Fluor[®] 546 (sc-13527 AF546), Alexa Fluor[®] 594 (sc-13527 AF594) or Alexa Fluor[®] 647 (sc-13527 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-13527 AF680) or Alexa Fluor[®] 790 (sc-13527 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, CD32 (AT10) is available conjugated to biotin (sc-13527 B), 200 μ g/ml, for WB, IHC(P) and ELISA; and to Alexa Fluor[®] 405 (sc-13527 AF405), 100 μ g/2 ml, for IF, IHC(P) and FCM.

Alexa Fluor[®] is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS

CD32 (AT10) is recommended for detection of CD32 of human origin by immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for CD32-A/B/C siRNA (h): sc-42772, CD32-A/B/C shRNA Plasmid (h): sc-42772-SH and CD32-A/B/C shRNA (h) Lentiviral Particles: sc-42772-V.

Molecular Weight of CD32: 40 kDa.

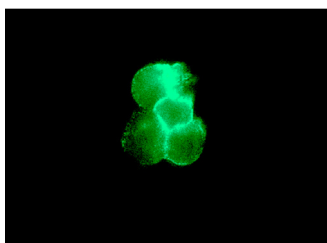
STORAGE

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

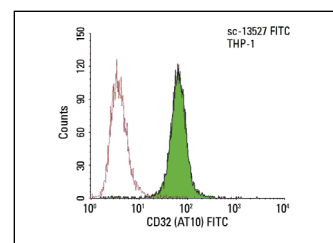
RESEARCH USE

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

DATA



CD32 (AT10): sc-13527. Immunofluorescence staining of methanol-fixed THP-1 cells showing membrane staining.



CD32 (AT10) FITC: sc-13527 FITC. FCM analysis of THP-1 cells. Black line histogram represents the isotype control, normal mouse IgG₁-FITC: sc-2855.

SELECT PRODUCT CITATIONS

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PROTOCOLS

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