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SANTA CRUZ BIOTECHNOLOGY, INC.

CD93 (h4): 293T Lysate: sc-175374

BACKGROUND

The CD93 antigen is a 652 amino acid cell-surface glycoprotein expressed by monocytes, neutrophils, platelets, microglia, and endothelial cells. CD93 was originally thought to be a putative receptor for the complement component C1q, a serum glycoprotein which plays an integral role in the activation of the classical pathway in response to immune complexes. As a result, in the literature the CD93 gene product has also been referred to as C1QR1 and C1qRp as well as MXRA4 (matrix-remodeling-associated protein 4). Recent studies suggest that the CD93 antigen plays a role in intercellular adhesion and in clearance of apoptotic cells. CD93 is a heavily O-glycosylated, type I transmembrane protein consisting of an N-terminal domain with homology to C-type lectin domains, a tandem array of EGF-like domains, a single transmembrane domain and a short cytoplasmic tail.

REFERENCES

1. Malhotra, R., et al. 1993. Structure and homology of human C1q receptor (collectin receptor). Immunology 78: 341-348.
2. Nepomuceno, R.R. and Tenner, A.J. 1998. C1qRP, the C1q receptor that enhances phagocytosis, is detected specifically in human cells of myeloid lineage, endothelial cells, and platelets. J. Immunol. 160: 1929-1935.
3. Nepomuceno, R.R., et al. 1999. C1qRP is a heavily O-glycosylated cell surface protein involved in the regulation of phagocytic activity. J. Immunol. 162: 3583-3589.
4. Danet, G.H., et al. 2002. C1qRp defines a new human stem cell population with hematopoietic and hepatic potential. Proc. Natl. Acad. Sci. USA 99: 10441-10445.
5. McGreal, E.P., et al. 2002. Human C1qRp is identical with CD93 and the mNI-11 antigen but does not bind C1q. J. Immunol. 168: 5222-5232.
6. Steinberger, P., et al. 2002. Identification of human CD93 as the phagocytic C1q receptor (C1qRp) by expression cloning. J. Leukoc. Biol. 71: 133-140.
7. Bohlson, S.S., et al. 2005. CD93 interacts with the PDZ domain-containing adaptor protein GIPC: implications in the modulation of phagocytosis. J. Leukoc. Biol. 77: 80-89.

CHROMOSOMAL LOCATION

Genetic locus: CD93 (human) mapping to 20p11.21.

PRODUCT

CD93 (h4): 293T Lysate represents a lysate of human CD93 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

CD93 (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive CD93 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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