

CLEC-10A (m): 293T Lysate: sc-125612

BACKGROUND

CLEC-10A (C-type lectin domain family 10, member A), also known as macrophage galactose and N-acetylgalactosamine-specific lectin (MGL), macrophage asialoglycoprotein-binding protein (M-ASGP-BP) or macrophage galactose/N-acetylgalactosamine-specific lectin, is a protein with galactose-binding activity and with sugar-binding specificity that is the same as that of the native lectin. CLEC-10A serves as a unique macrophage marker in mouse lung tissue due to its topographical site-dependent pattern of expression. Additionally, the most intense signal is observed in the extract from skin, suggesting that cells expressing this lectin are abundant in skin. CLEC-10A may also participate in the binding of the macrophages to tumor cells. Cells which stain positively for CLEC-10A are distributed in the connective tissue and in the interstice, particularly the dermis and subcutaneous layer of skin.

REFERENCES

1. Oda, S., et al. 1989. Binding of activated macrophages to tumor cells through a macrophage lectin and its role in macrophage tumoricidal activity. *J. Biochem.* 105: 1040-1043.
2. Li, M., et al. T. 1990. Molecular cloning and sequence analysis of cDNA encoding the macrophage lectin specific for galactose and N-acetylgalactosamine. *J. Biol. Chem.* 265: 11295-11298.
3. Sato, M., et al. 1992. Molecular cloning and expression of cDNA encoding a galactose/N-acetylgalactosamine-specific lectin on mouse tumoricidal macrophages. *J. Biochem.* 111: 331-336.
4. Kimura, T., et al. 1995. Calcium-dependent conformation of a mouse macrophage calcium-type lectin. Carbohydrate binding activity is stabilized by an antibody specific for a calcium-dependent epitope. *J. Biol. Chem.* 270: 16056-16062.
5. Imai, Y., et al. 1995. Restricted expression of galactose/N-acetylgalactosamine-specific macrophage C-type lectin to connective tissue and to metastatic lesions in mouse lung. *Immunology* 86: 591-598.
6. Mizuochi, S., et al. 1997. Unique tissue distribution of a mouse macrophage C-type lectin. *Glycobiology* 7: 137-146.

CHROMOSOMAL LOCATION

Genetic locus: Clec10a (mouse) mapping to 11 B3.

PRODUCT

CLEC-10A (m): 293T Lysate represents a lysate of mouse CLEC-10A 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

CLEC-10A (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CLEC-10A antibodies. Recommended use: 10-20 µl per lane.

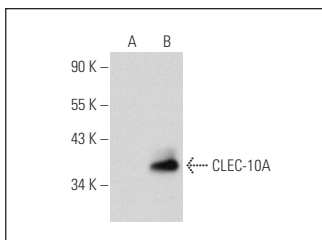
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CLEC-10A (ER-MP23): sc-56109 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse CLEC-10A expression in CLEC-10A transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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.

DATA



CLEC-10A (ER-MP23): sc-56109. Western blot analysis of CLEC-10A expression in non-transfected: sc-117752 (A) and mouse CLEC-10A transfected: sc-125612 (B) 293T whole cell lysates.

RESEARCH USE

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