

Slc37A2 Antibody

Catalog # ASC11086

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8TED4
Other Accession	NP_938018 , 38093649
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	54436
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Slc37A2 antibody can be used for detection of Slc37A2 by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	219855
Other Names	Sugar phosphate exchanger 2, Solute carrier family 37 member 2, SLC37A2, SPX2
Target/Specificity	SLC37A2;
Reconstitution & Storage	Slc37A2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Slc37A2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC37A2 (HGNC:20644)
Function	Inorganic phosphate and glucose-6-phosphate antiporter. May transport cytoplasmic glucose-6-phosphate into the lumen of the endoplasmic reticulum and translocate inorganic phosphate into the opposite direction. Independent of a luminal glucose-6-phosphatase. May not play a role in homeostatic regulation of blood glucose levels.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Detected in intestine and pancreas. Lower expression is also detected in liver

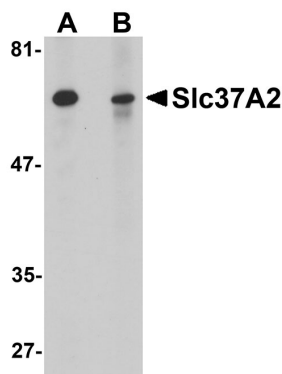
Background

Slc37A2 Antibody: The Slc37 gene family consists of four members which have 10-12 predicted transmembrane domains and belong to the sugar-phosphate transporter superfamily. Recent experiments have demonstrated that Slc37A2 is a macrophage-specific gene selectively expressed in obese white adipose tissue. Its transcript is also expressed in spleen and thymus and the cell lines RAW264.7 and THP-1. Compared to wild-type mice, Slc37A2 mRNA is expressed at nine-fold higher levels in abdominal epididymal fat deposits of ob/ob mice, suggesting that it may be required to limit the contribution of macrophages to the inflammatory state present in obesity. Slc37A2 protein is post-translationally modified with the addition of N-linked glycans and migrates as a heterogeneous species of 50-75kDa.

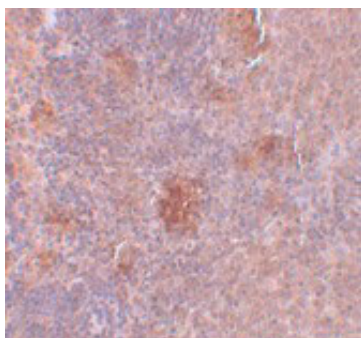
References

Bartolini L and Antonarakis SE. The human sugar-phosphate/phosphate exchanger family SLC37. *Eur. J. Physiol.*2004; 447-780-3.
Kim JY, Tillison K, Zhou S, et al. The major facilitator superfamily member Slc37a2 is a novel macrophage-specific gene selectively expressed in obese white adipose tissue. *Am. J. Physiol. Endocrinol. Metab.*2007; 293:E110-20.

Images

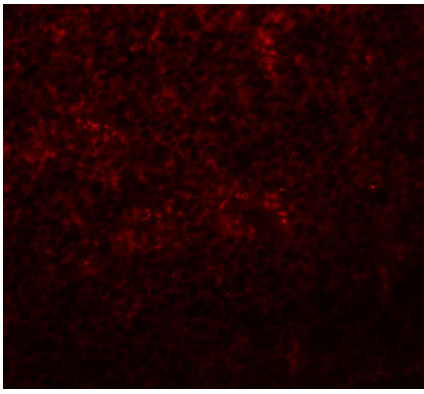


Western blot analysis of Slc37A2 in mouse spleen tissue lysate with Slc37A2 antibody at 1 µg/mL in the (A) absence and (B) presence of blocking peptide.



Immunohistochemistry of Slc37A2 in rat spleen tissue with Slc37A2 antibody at 5 µg/mL.

Immunofluorescence of Slc37A2 in rat spleen tissue with Slc37A2 antibody at 20 µg/mL.



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