ZIP8 mouse mAb

Catalog No	YP-mAb-17710
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SLC39A8 BIGM103 ZIP8 PP3105
Protein Name	Zinc transporter ZIP8 (BCG-induced integral membrane protein in monocyte clone 103 protein) (LIV-1 subfamily of ZIP zinc transporter 6) (LZT-Hs6) (Solute carrier family 39 member 8) (Zrt- and Irt-like
Immunogen	Synthesized peptide derived from human ZIP8
Specificity	This antibody detects endogenous levels of ZIP8 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	51kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Apical cell membrane ; Multi-pass membrane protein . Basolateral cell membrane ; Multi-pass membrane protein . Localizes to the lysosome of activated T-cells (PubMed:19401385). A large fraction of the protein is found intracellularly in microvascular capillary endothelial cells that constitute the blood-brain barrier (PubMed:31699897). Localized and functional at both apical and basolateral membranes of microvascular capillary endothelial cells that constitute the blood-brain barrier (PubMed:31699897). .
Tissue Specificity	Ubiquitously expressed (PubMed:12504855, PubMed:22898811, PubMed:28056086, PubMed:31699897). Expressed in thymus, placenta, lung, liver, pancreas, salivary gland and, to a lower extent, in spleen, testis, ovary, small intestine, colon, leukocyte, heart. Highest expression is observed in pancreas (PubMed:12504855). Expressed by macrophages (at protein level) (PubMed:28056086). Expressed by microvascular capillary endothelial cells that constitute the blood-brain barrier (at protein level) (PubMed:31699897).
Function	Electroneutral transporter of the plasma membrane mediating the cellular uptake of zinc and manganese, two divalent metal cations important for development, tissue homeostasis or immunity . Functions as an energy-dependent symporter,

	transporting through the membranes an electroneutral complex composed of a divalent metal cation, a bicarbonate and a selenite anion or yet a metal cation and two bicarbonate anions . May also transport iron, mercury and cobalt through membranes . Beside these endogenous cellular substrates, also imports cadmium a non-essential metal which is cytotoxic and carcinogenic . Through zinc import, indirectly regulates the metal-dependent transcription factor MTF1 and the expression of some metalloproteases involved in cartilage catabolism and also probably heart development . Also indirectly regulates the expression of proteins involved in cell morphology and cyt
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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