Rabbit anti-Human, rat SLC25A37 Polyclonal Antibody | anti-SLC25A37 antibody

SLC25A37 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287998	**Rabbit**	**Human, rat**	**Immunofluorescence, Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

SLC25A37; Polyclonal Antibody; SLC25A37 Antibody (C-term); Mitoferrin-1; Mitochondrial iron transporter 1; Mitochondrial solute carrier protein; Solute carrier family 25 member 37; MFRN; MSCP; anti-SLC25A37 antibody

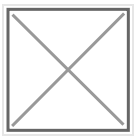
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, rat
Clonality	Polyclonal
Isotype	Ig
Specificity	This SLC25A37 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-338 amino acids from the C-terminal region of human SLC25A37.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	309-338
Sequence Length	338
Applicable Applications for anti-SLC25A37 antibody	IF (Immunofluorescence), WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Function	Mitochondrial iron transporter that specifically mediates iron uptake in developing erythroid cells, thereby playing an essential role in heme biosynthesis. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoprophyrin IX to make heme (By similarity).
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

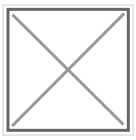
IMAGES

FCM/FACS (Flow Cytometry)
SLC25A37 Antibody (C-term) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IHC (Immunohistochemisry)
SLC25A37 Antibody (C-term) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SLC25A37 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
SLC25A37 Antibody (C-term) western blot analysis in K562 cell line and rat spleen tissue lysates (35ug/lane).This demonstrates the SLC25A37 antibody detected the SLC25A37 protein (arrow).



IF (Immunofluorescence)
Immunofluorescent analysis of Hela cells, using SLC25A37 Antibody (C-term). AAA287998 was diluted at 1:25 dilution. Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Dylight Fluor 554 (red) conjugated Phalloidin (red).

ADDITIONAL INFORMATION

Related Product Information for anti-SLC25A37 antibody	SLC25A37 belongs to the SLC25 family of mitochondrial carrier proteins (Haitina et al., 2006 [PubMed 16949250]).[supplied by OMIM].
Product Categories/Family for anti-SLC25A37 antibody	Crown Antibodies; Cardiovascular
References	Kaneko, K., et al. FEBS J. 276(5):1370-1382(2009) Haitina, T., et al. Genomics 88(6):779-790(2006) Shaw, G.C., et al. Nature 440(7080):96-100(2006) Li, Q.Z., et al. Mamm. Genome 12(11):830-836(2001)

NCBI AND UNIPROT INFORMATION

NCBI GI #	82775373
NCBI GeneID	51312
NCBI Accession #	NP_057696.2
NCBI GenBank Nucleotide #	NM_016612.2
UniProt Accession #	Q9NYZ2; Q53FT7; Q69YJ8; Q969S1; Q9P0J2; A2RU93
Molecular Weight	Calculated MW: 37323
NCBI Official Full Name	mitoferrin-1
NCBI Official Synonym Full Names	solute carrier family 25 (mitochondrial iron transporter), member 37
NCBI Official Symbol	SLC25A37
NCBI Official Synonym Symbols	MSC; MFRN; MSCP; HT015; MFRN1; PRO1278; PRO1584; PRO2217
NCBI Protein Information	mitoferrin-1
UniProt Protein Name	Mitoferrin-1
UniProt Gene Name	**SLC25A37**
UniProt Synonym Gene Names	MFRN; MSCP
UniProt Entry Name	MFRN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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