SLC29A3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC29A3, Polyclonal Antibody
Full Product Name	SLC29A3 Polyclonal Conjugated Antibody
Product Gene Name	anti-SLC29A3 antibody
Product Synonym Names	SLC29A3 Conjugated Antibody; SLC29A3; ENT3; HCLAP; HJCD; PHID; solute carrier family 29 member 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	35,502 Da
OMIM	phenotype 612373
3D Structure	ModBase 3D Structure for Q9BZD2
Immunogen	Recombinant fusion protein of human SLC29A3 (NP_060814.4).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-SLC29A3 antibody	Most Applications
Application Notes for anti-SLC29A3 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-SLC29A3 antibody	This gene encodes a nucleoside transporter. The encoded protein plays a role in cellular uptake of nucleosides, nucleobases, and their related analogs. Mutations in this gene have been associated with H syndrome, which is characterized by cutaneous hyperpigmentation and hypertrichosis, hepatosplenomegaly, heart anomalies, and hypogonadism. A related disorder, PHID (pigmented hypertrichosis with insulin-dependent diabetes mellitus), has also been associated with mutations at this locus. Alternatively spliced transcript variants have been described.
Other Notes	Small volumes of anti-SLC29A3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC29A3 purchase	MBS9439296 is an antibody targeting SLC29A3. Also known as SLC29A3 Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC29A3. It may not necessarily be applicable to this product.

NCBI GI #	148596922
NCBI GeneID	55315
NCBI Accession #	NP_060814.4
UniProt Primary Accession #	Q9BZD2
UniProt Secondary Accession #	Q0VAM9; Q5T465; Q7RTT8; Q8IVZ0; Q9BWI2; Q9NUS9; B2RB50; B4E2Z9; B7ZA37
UniProt Related Accession #	Q9BZD2
GenBank Nucleotide #	NM_018344.5
NCBI Official Full Name	equilibrative nucleoside transporter 3 isoform a
NCBI Official Synonym Full Names	solute carrier family 29 member 3
NCBI Official Symbol	SLC29A3
NCBI Official Synonym Symbols	ENT3; HJCD; PHID; HCLAP
UniProt Protein Name	Equilibrative nucleoside transporter 3
UniProt Synonym Protein Names	Solute carrier family 29 member 3
Protein Family	Equilibrative nucleoside transporter
UniProt Gene Name	SLC29A3
UniProt Synonym Gene Names	ENT3; hENT3
UniProt Entry Name	S29A3_HUMAN
NCBI Protein Information	equilibrative nucleoside transporter 3
UniProt Comments for SLC29A3	SLC29A3: Mediates both influx and efflux of nucleosides across the membrane (equilibrative transporter). Mediates transport of adenine, adenosine and uridine, as well as several nucleoside analog drugs, such as anticancer and antiviral agents, including cladribine, cordycepin, tubercidin and AZT. Does not transport hypoxanthine. Defects in SLC29A3 are the cause of histiocytosis- lymphadenopathy plus syndrome (HLAS). A syndrome characterized by the combination of features from 2 or more of four histiocytic disorders, originally thought to be distinct: Faisalabad histiocytosis (FHC), sinus histiocytosis with massive lymphadenopathy (SHML), H syndrome, and pigmented hypertrichosis with insulin-dependent diabetes mellitus syndrome (PHID). FHC features include joint deformities, sensorineural hearing loss, and subsequent development of generalized lymphadenopathy and swellings in the eyelids that contain histiocytes. SHML causes lymph node enlargement in children frequently accompanied by fever, leukocytosis, elevated erythrocyte sedimentation rate, and polyclonal hypergammaglobulinemia. H syndrome is characterized by cutaneous hyperpigmentation and hypertrichosis, hepatosplenomegaly, heart anomalies, and hypogonadism; hearing loss is found in about half of patients. PHID is characterized by predominantly antibody-negative insulin-dependent diabetes mellitus associated with pigmented hypertrichosis and variable occurrence of other features of H syndrome. Belongs to the SLC29A/ENT transporter (TC 2.A.57) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter; Transporter, SLC family; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 10q22.1 Cellular Component: late endosome membrane; lysosomal membrane; integral to membrane Molecular Function: nucleoside transmembrane transporter activity Biological Process: transmembrane transport Disease: Histiocytosis-lymphadenopathy Plus Syndrome

Research Articles on SLC29A3	**1.** novel mutation c.401G>A associated with pigmented hypertrichosis with insulin-dependent diabetes mellitus syndrome
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