Aquaporin 3, Gill Blood Group (AQP-3) ELISA Kit for Pigeon

PRODUCT OVERVIEW

Product Name	Aquaporin 3, Gill Blood Group (AQP-3), ELISA Kit
Full Product Name	Pigeon Aquaporin 3, Gill Blood Group ELISA Kit
Product Gene Name	AQP-3 elisa kit
Species Reactivity	Pigeon
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	31,544 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (33441152..33447631, complement). Location: 9p13
OMIM	600170
3D Structure	ModBase 3D Structure for Q92482
Related Product Information for AQP-3 elisa kit	MBS106295 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Aquaporin 3, Gill Blood Group (AQP-3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing AQP-3. The ELISA analytical biochemical technique of the MBS106295 kit is based on AQP-3 antibody-AQP-3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect AQP-3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, AQP-3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of AQP-3 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AQP-3. It may not necessarily be applicable to this product.

NCBI GI #	4826645
NCBI GeneID	360
NCBI Accession #	NP_004916.1
UniProt Primary Accession #	Q92482
UniProt Secondary Accession #	O00108; Q6FGT2; Q6FGW6; A8K843; B2RE16; D3DRL3
UniProt Related Accession #	Q92482
GenBank Nucleotide #	NM_004925.4
NCBI Official Full Name	aquaporin-3
NCBI Official Synonym Full Names	aquaporin 3 (Gill blood group)
NCBI Official Symbol	AQP3
NCBI Official Synonym Symbols	GIL; AQP-3
UniProt Protein Name	Aquaporin-3
UniProt Synonym Protein Names	Aquaglyceroporin-3

UniProt Gene Name	AQP3
UniProt Synonym Gene Names	AQP-3
UniProt Entry Name	AQP3_HUMAN
NCBI Protein Information	aquaporin-3; aquaglyceroporin-3; aquaporin 3 (GIL blood group)
NCBI Summary for AQP-3	This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. [provided by RefSeq, Aug 2011]
UniProt Comments for AQP-3	AQP3: Water channel required to promote glycerol permeability and water transport across cell membranes. Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism. Belongs to the MIP/aquaporin (TC 1.A.8) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transporter, aquaporin family; Membrane protein, multi-pass; Transporter; Channel, misc. Chromosomal Location of Human Ortholog: 9p13 Cellular Component: basolateral plasma membrane; integral to plasma membrane; cytoplasm; integral to membrane; plasma membrane; intercellular junction Molecular Function: transporter activity; urea transmembrane transporter activity; water channel activity; glycerol channel activity Biological Process: positive regulation of immune system process; glycerol transport; response to retinoic acid; cellular water homeostasis; water transport; excretion; odontogenesis; response to vitamin D; transport; renal water homeostasis; response to calcium ion; transmembrane transport; regulation of keratinocyte differentiation Disease: Gil Blood Group
Research Articles on AQP-3	**1.** our results suggest AQP3 overexpression in human colorectal carcinoma cells could facilitate cell migration.
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