

DHR SX Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58945

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8N5I4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36443
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DHR SX
Epitope Specificity	51-150/330
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the short-chain dehydrogenases/reductases (SDR) family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DHR SX (dehydrogenase/reductase SDR family member on chromosome X) is a 330 amino acid protein belonging to the short-chain dehydrogenases/reductases (SDR) family. Widely expressed, DHR SX is an oxidoreductase that contains a coenzyme binding site and a substrate binding site, indicating a possible role in cellular metabolism. The gene that encodes DHR SX is located in the pseudoautosomal region 1 (PAR1) of X and Y chromosomes. The X and Y chromosomes are the human sex chromosomes. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. The combination of a X and Y chromosome lead to normal male development while two copies of X lead to normal female development. There are a number of conditions related to an unusual number and combination of sex chromosomes being inherited, including Turner's syndrome, Klinefelter's syndrome and Triple X syndrome. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

Additional Information

Gene ID	207063
Other Names	Dehydrogenase/reductase SDR family member on chromosome X, 1.1.-., DHR SXY, Short chain dehydrogenase/reductase family 46C member 1, Short chain dehydrogenase/reductase family 7C member 6, DHR SX, CXorf11, DHR S5X, SDR46C1, SDR7C6
Target/Specificity	Widely expressed.

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DHRX {ECO:0000303 PubMed:38821050}
Function	Oxidoreductase that plays a key role in early steps of protein N-linked glycosylation by mediating two non-consecutive steps in dolichol biosynthesis (PubMed: 38821050). Acts both as a NAD(+)- dependent dehydrogenase and as a NADPH-dependent reductase during the conversion of polyprenol into dolichol (PubMed: 38821050). First catalyzes the NAD(+)-dependent dehydrogenation of polyprenol into polyprenal; polyprenal is then reduced into dolichal by SRD5A3 (PubMed: 38821050). It then catalyzes the NADPH-dependent reduction of dolichal into dolichol (PubMed: 38821050). May also acts as a positive regulator of starvation-induced autophagy (PubMed: 25076851).
Cellular Location	Lipid droplet. Secreted. Note=Secreted in a non- classical form; a signal peptide sequence at position 1-31 is predicted.
Tissue Location	Widely expressed. Highly expressed in the pancreas.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.