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ARSI Rabbit pAb

Catalog # AP98916

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q5FYB1
Other Accession	Q5FYB1
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64030
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ARSI
Epitope Specificity	101-200/569
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 sulfatase family.
Post-translational modifications	The oxidation of Cys-93 residue to 3-oxoalanine (also known as C(alpha)-formylglycine) by SUMF1/Sulfatase-modifying factor 1, seems critical for catalytic activity.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Sulfatases (EC 3.1.5.6), such as ARSI, hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules (Sardiello et al., 2005 [PubMed 16174644]).[supplied by OMIM, Mar 2008].

Additional Information

Gene ID	340075
Other Names	ASI; SPG66; ARSI_HUMAN; ARSI; 3.1.6.-; arylsulfatase family member I; arylsulfatase I; arylsulfatase family, member I
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	ARSI
Function	Displays arylsulfatase activity at neutral pH, when co- expressed with SUMF1; arylsulfatase activity is measured in the secretion medium of retinal cell line, but no activity is recorded when measured in cell extracts (PubMed:19262745). Lacks arylsulfatase activity (PubMed:16500042).
Cellular Location	Secreted. Endoplasmic reticulum. Note=Localized in the intracellular granular structures
Tissue Location	Expressed in placenta, in embryonic stem cells, fetal eyes and lens.

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