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SELT Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9306a

Product Information

Application	WB, FC, E
Primary Accession	P62341
Other Accession	Q1H5H1, P62342, Q5ZJN8, A6QP01
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24793
Calculated MW	22324
Antigen Region	48-75

Additional Information

Gene ID	51714
Other Names	Selenoprotein T, SelT, SELT
Target/Specificity	This SELT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 48-75 amino acids from the N-terminal region of human SELT.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SELT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SELENOT {ECO:0000303|PubMed:27645994, ECO:0000312|HGNC:HGNC:18136}
Function	Selenoprotein with thioredoxin reductase-like oxidoreductase activity (By similarity). Protects dopaminergic neurons against oxidative stress and cell

	death (PubMed:26866473). Involved in ADCYAP1/PACAP-induced calcium mobilization and neuroendocrine secretion (By similarity). Plays a role in fibroblast anchorage and redox regulation (By similarity). In gastric smooth muscle, modulates the contraction processes through the regulation of calcium release and MYLK activation (By similarity). In pancreatic islets, involved in the control of glucose homeostasis, contributes to prolonged ADCYAP1/PACAP- induced insulin secretion (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q1H5H1}; Single-pass membrane protein
Tissue Location	Ubiquitous. Highly expressed in the endocrine pancreas.

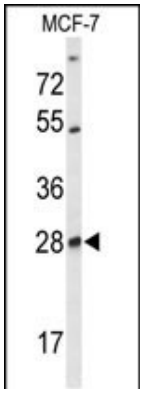
Background

SELT encodes a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal.

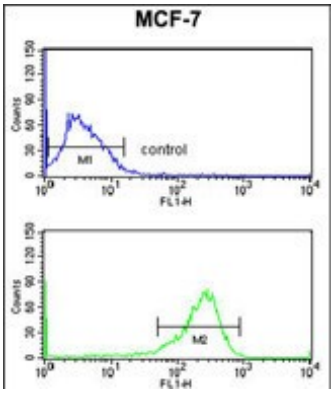
References

Kryukov,G.V., et.al., Science 300 (5624), 1439-1443 (2003)
Kryukov,G.V., et.al., J. Biol. Chem. 274 (48), 33888-33897 (1999)

Images



Western blot analysis of SELT Antibody (N-term) (Cat. #AP9306a) in MCF-7 cell line lysates (35ug/lane). SELT (arrow) was detected using the purified Pab.



SELT Antibody (N-term) (Cat. #AP9306a) flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.