

## Product datasheet for **TA367243**

### SEPNI (SELENON) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human placenta tissue IHC: 25-100 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human SELENON
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	66 kDa
Gene Name:	selenoprotein N, 1
Database Link:	<a href="#">Entrez Gene 57190 Human Q9NZV5</a>



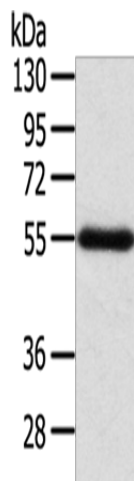
[View online »](#)

**Background:**

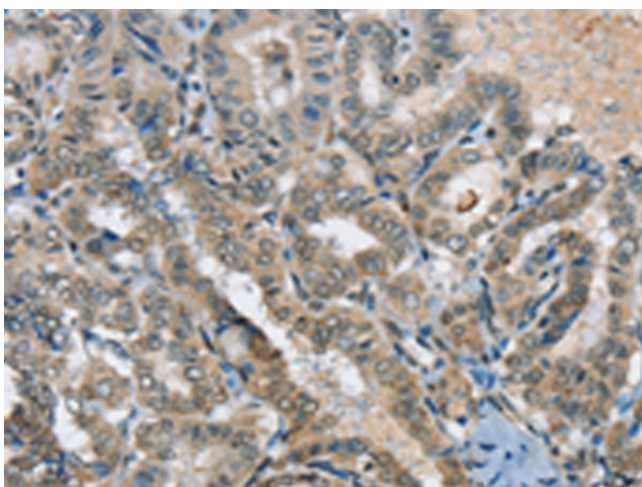
This gene encodes a glycoprotein that is localized in the endoplasmic reticulum. It plays an important role in cell protection against oxidative stress, and in the regulation of redox-related calcium homeostasis. Mutations in this gene are associated with early onset muscle disorders, referred to as SEPN1-related myopathy. SEPN1-related myopathy consists of 4 autosomal recessive disorders, originally thought to be separate entities: rigid spine muscular dystrophy (RSMD1), the classical form of multiminicore disease, desmin related myopathy with Mallory-body like inclusions, and congenital fiber-type disproportion (CFTD). This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec). Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. A second stop-codon redefinition element (SRE) adjacent to the UGA codon has been identified in this gene (PMID:15791204). SRE is a phylogenetically conserved stem-loop structure that stimulates readthrough at the UGA codon, and augments the Sec insertion efficiency by SECIS. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2016]

**Synonyms:**

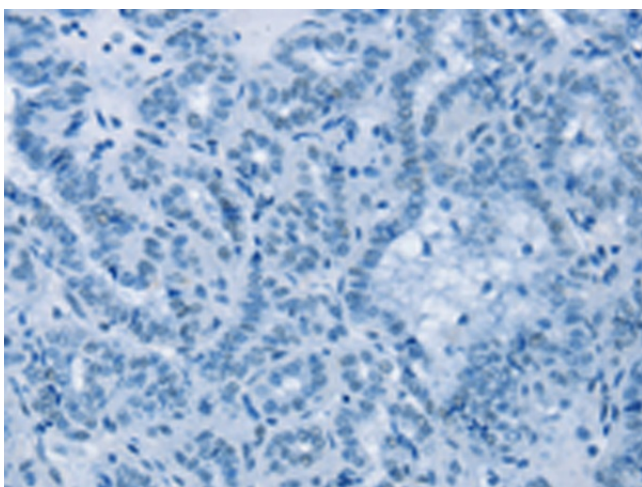
FLJ24021; MDRS1; OTTHUMP00000008506; OTTHUMP00000008507; RSMD1; RSS; SELN

**Product images:**

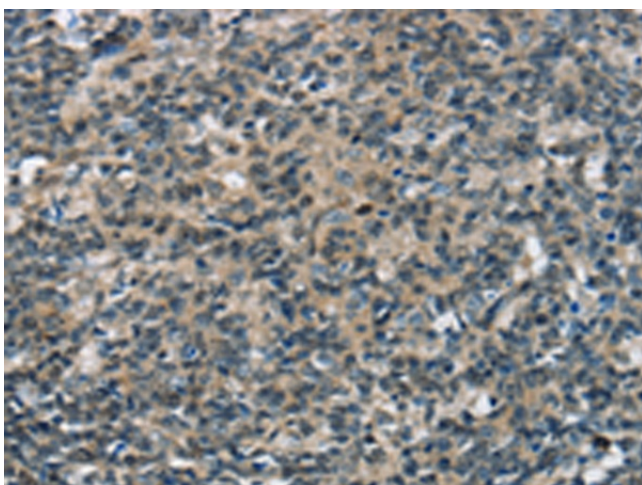
Gel: 8%SDS-PAGE  
Lysate: 60 µg  
Lane: Human placenta tissue  
Primary antibody: TA367243 (SELENON Antibody) at dilution 1/200  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 2 minutes



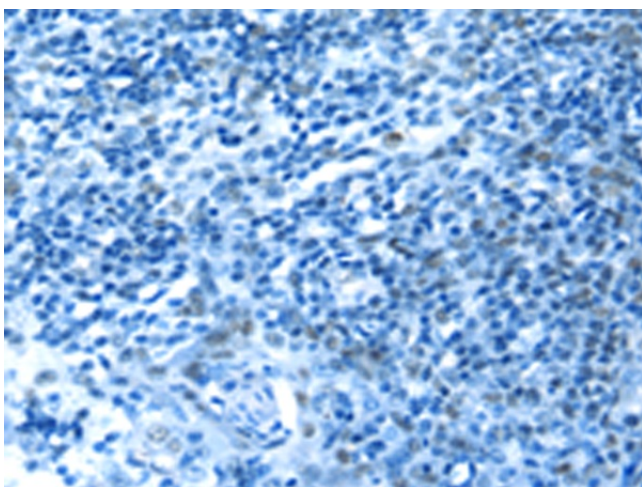
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA367243 (SELENON Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA367243 (SELENON Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA367243 (SELENON Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA367243 (SELENON Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )