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[Primary Antibody]

Rabbit Anti-EDA antibody

Catalog Number: SL1149R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	EDA
Immunogen:	KLH conjugated synthetic peptide derived from human Ectodysplasin-A, secreted form: 131-230/391 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Mouse, Rat (predicted: Human, Cow)
Predicted MW.:	24/41kDa
Subcellular Location:	The cell membrane Secretory protein
Background:	The protein encoded by the EDA gene is a type II membrane protein that can be cleaved by furin to produce a secreted form. The encoded protein, which belongs to the tumor necrosis factor family, acts as a homotrimer and may be involved in cell-cell signaling during the development of ectodermal organs. Defects in the EDA gene are a cause of ectodermal dysplasia, anhidrotic, (this is also known as X-linked hypohidrotic ectodermal dysplasia). Several transcript variants encoding many different isoforms have been found for this gene. AltName: ectodermal dysplasia protein; Ectodysplasin-A; EDA protein homolog; Tabby protein; Ectodysplasin-A, membrane form; secreted form EDA-A5. **Function:** Seems to be involved in epithelial-mesenchymal signaling during

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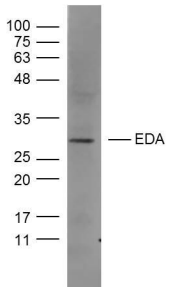
	morphogenesis of ectodermal organs. Isoform 1 binds only to the receptor EDAR, while isoform 3 binds exclusively to the receptor XEDAR. **Subunit:** Homotrimer. The homotrimers may then dimerize and form higher-order oligomers. **Subcellular Location:** Cell membrane; Single-pass type II membrane protein. Ectodysplasin-A, secreted form: Secreted. **Tissue Specificity:** Not abundant; expressed in specific cell types of ectodermal (but not mesodermal) origin of keratinocytes, hair follicles, sweat glands. Also in adult heart, liver, muscle, pancreas, prostate, fetal liver, uterus, small intestine and umbilical chord. **Post-translational modifications:** N-glycosylated. Processing by furin produces a secreted form. DISEASE: Ectodermal dysplasia 1, hypohidrotic, X-linked (XHED) [MIM:305100]: A form of ectodermal dysplasia, a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. Characterized by sparse hair (atrichosis or hypotrichosis), abnormal or missing teeth and the inability to sweat due to the absence of sweat glands. It is the most common form of over 150 clinically distinct ectodermal dysplasias. Note=The disease is caused by mutations affecting the gene represented in this entry. Tooth agenesis selective X-linked 1 (STHAGX1) [MIM:313500]: A form of selective tooth agenesis, a common anomaly characterized by the congenital absence of one or more teeth. Selective tooth agenesis without associated systemic disorders has sometimes been divided into 2 types: oligodontia, defined as agenesis of 6 or more permanent teeth, and hypodontia, defined as agenesis of less than 6 teeth. The number in both cases does not include absence of third molars (wisdom teeth). Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Belongs to the tumor necrosis factor family. Contains 1 collagen-like domain. **Database links:** **Entrez Gene:** 1896 Human **Entrez Gene:** 13607 Mouse **Entrez Gene:** 302424 Rat Omim: 300451 Human **SwissProt:** Q92838 Human **SwissProt:** O54693 Mouse **Unigene:** 105407 Human **Unigene:** 328086 Mouse **Unigene:** 211298 Rat

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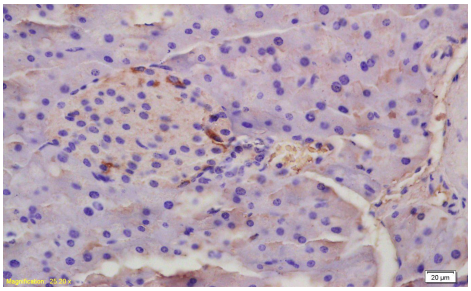
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	Ectodermal dysplasia 1 belongs to the TNF family and is an autosomal recessive inherited disease.

[VALIDATION IMAGES]



Sample:
Placenta (Mouse) Lysate at 40 ug
Primary: Anti-EDA (SL1149R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 24/41 kD
Observed band size: 30 kD



Tissue/cell: rat placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-ED-1 Polyclonal Antibody, Unconjugated(SL1149R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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