

**XEDAR Antibody**  
**Catalog # ASC10433****Specification**

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**XEDAR Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q9HAV5</a>
Other Accession	<a href="#">AAQ89953</a> , <a href="#">37222208</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	XEDAR antibody can be used for the detection of XEDAR by Western blot at 0.5 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL.

**XEDAR Antibody - Additional Information**Gene ID **60401****Other Names**

XEDAR Antibody: XEDAR, EDAA2R, EDA-A2R, TNFRSF27, XEDAR, UNQ2448/PRO5727/PRO34080, Tumor necrosis factor receptor superfamily member 27, X-linked ectodysplasin-A2 receptor, EDA-A2 receptor, ectodysplasin A2 receptor

**Target/Specificity**

EDA2R;

**Reconstitution & Storage**

XEDAR antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

XEDAR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**XEDAR Antibody - Protein Information****Name** EDA2R**Synonyms** TNFRSF27, XEDAR**Function**

Receptor for EDA isoform A2, but not for EDA isoform A1. Mediates the activation of the NF-kappa-B and JNK pathways. Activation seems to be mediated by binding to TRAF3 and TRAF6.

**Cellular Location**

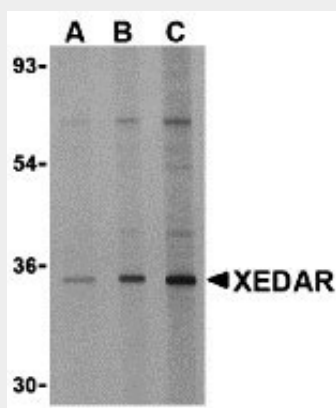
Membrane; Single-pass type III membrane protein.

### XEDAR Antibody - Protocols

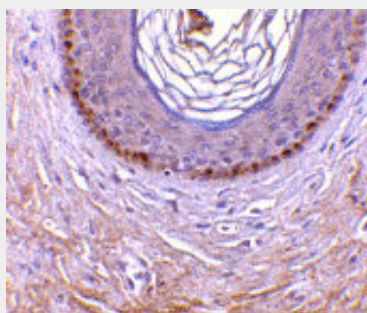
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### XEDAR Antibody - Images



Western blot analysis of XEDAR in 293 cell lysate with XEDAR antibody at (A) 0.5, (B) 1 and (C) 2  $\mu\text{g/mL}$ .



Immunohistochemistry of XEDAR in human skin tissue with XEDAR antibody at 10  $\mu\text{g/mL}$ .

### XEDAR Antibody - Background

**XEDAR Antibody:** X-linked ectodysplasin-A2 receptor (XEDAR) is a recently isolated member of the tumor necrosis factor receptor family that is highly expressed during embryonic development and binds to ectodysplatin-A2 (EDA-A2). Two predominantly expressed isoforms, XEDAR-s and XEDAR-L, differ by only a 21-amino region at the juxtamembrane region of the cytoplasmic domain. Neither isoform possesses a death domain and both have been shown to act mainly through TRAF3 and TRAF6 to activate the NF- $\kappa\text{B}$  and JNK pathways. Cells transfected with XEDAR and treated with EDA-A2 cause the assembly of a secondary complex containing FADD, caspase-8 and caspase-10,

leading to the activation caspase-8 and caspase-3, and finally apoptosis. The EDA-A2-induced apoptosis is dependent on caspase-9 activation, as various pharmacological and genetic inhibitors of caspase-8 blocked apoptosis following EDA-A2 treatment.

#### **XEDAR Antibody - References**

Yan M, Wang LC, Hymowitz SG, et al. Two-amino acid molecular switch in an epithelial morphogen that regulates binding to two distinct receptors. *Science* 2000; 290:523-7.

Sinha SK, Zachariah S, Quinones HI, et al. Role of TRAF3 and -6 in the activation of the NF- $\kappa$ B and JNK pathways by X-linked ectodermal dysplasia receptor. *J. Biol. Chem.* 2002; 277:44953-61.

Sinha SK and Chaudhary PM. Induction of apoptosis by X-linked ectodermal dysplasia receptor via a caspase 8-dependent mechanism. *J. Biol. Chem.* 2004; 41873-81.