Product datasheet

Anti-EDA antibody ab198022

2 References  2 Images

Overview

Product name  Anti-EDA antibody
Description  Rabbit polyclonal to EDA
Host species  Rabbit
Specificity  ab198022 detects endogenous levels of total EDA protein.
Tested applications  **Suitable for:** IHC-P
Species reactivity  **Reacts with:** Mouse, Human
Immunogen  Fusion protein corresponding to Human EDA (C terminal). BC126143. The identity of the protein fusion partner is GST.
DATABASE LINK: Q92838
Positive control  Human liver cancer tissue and human breast cancer tissue.

Properties

Form  Liquid
Storage buffer  pH: 7.30
Preservative: 0.05% Sodium azide
Constituents: 49% PBS, 50% Glycerol
Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab198022 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>IHC-P</td>
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<td>1/50 - 1/200.</td>
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### Target

#### Function
Seems to be involved in epithelial-mesenchymal signaling during morphogenesis of ectodermal organs. Isoform 1 binds only to the receptor EDAR, while isoform 3 binds exclusively to the receptor XEDAR.

#### 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.

#### Involvement in disease
Defects in EDA are the cause of ectodermal dysplasia type 1 (ED1) [MIM:305100]; also known as Christ-Siemens-Touraine syndrome or X-linked hypohidrotic ectodermal dysplasia (XLHED). Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. ED1 is a disease characterized by sparse hair (atricohosis or hypotrichosis), abnormal or missing teeth and the inability to sweat due to the absence of sweat glands. ED1 is the most common form of over 150 clinically distinct ectodermal dysplasias. Defects in EDA are the cause of tooth agenesis selective X-linked type 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).

#### Sequence similarities
Belongs to the tumor necrosis factor family. Contains 1 collagen-like domain.

#### Post-translational modifications
N-glycosylated. Processing by furin produces a secreted form.

#### Cellular localization
Secreted and Cell membrane.

### Images

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue labeling EDA with ab198022 at a 1/30 dilution.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EDA antibody (ab198022)**
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling EDA with ab198022 at a 1/30 dilution.

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