

Datasheet for ABIN1858334  
**anti-E-cadherin antibody (AA 375-631)**[Go to Product page](#)**1** Validation**2** Images**2** Publications

## Overview

Quantity:	100 µL
Target:	E-cadherin (CDH1)
Binding Specificity:	AA 375-631
Reactivity:	Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This E-cadherin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunocytochemistry (ICC)

## Product Details

Purpose:	Polyclonal Antibody to E-cadherin
Immunogen:	Recombinant E-cadherin corresponding to Phe375~Thr631 (Accession # C6EVT4) with N-terminal His and GST Tag
Isotype:	IgG
Specificity:	The antibody is a rabbit polyclonal antibody raised against E-cadherin. It has been selected for its ability to recognize E-cadherin in immunohistochemical staining and western blotting.
Purification:	Antigen-specific affinity chromatography followed by Protein A affinity chromatography

## Target Details

Target:	E-cadherin (CDH1)
---------	-------------------

## Target Details

Alternative Name:	E-cadherin ( <a href="#">CDH1 Products</a> )
Background:	CDHE, CD324, CDH1, Arc1, ECAD, CDH-E, E-CAD, LCAM, UVO, Cadherin 1 Type 1, Uvomorulin, E-Cadherin, Calcium-Dependent Adhesion Protein, Epithelial, Liver Cell Adhesion Molecule
Pathways:	<a href="#">WNT Signaling</a> , <a href="#">Sensory Perception of Sound</a> , <a href="#">Cell-Cell Junction Organization</a> , <a href="#">Tube Formation</a>

## Application Details

Application Notes:	Western blotting: 0.5-2 µg/mL 1:160-660 Immunohistochemistry: 5-20 µg/mL 1:16-66 Immunocytochemistry: 5-20 µg/mL 1:16-66 Optimal working dilutions must be determined by end user.
Comment:	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, pH 7.4, containing 0.02 % Sodium azide, 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Store at 4°C for frequent use. Stored at -20°C in a manual defrost freezer for two year without detectable loss of activity. Avoid repeated freeze-thaw cycles.

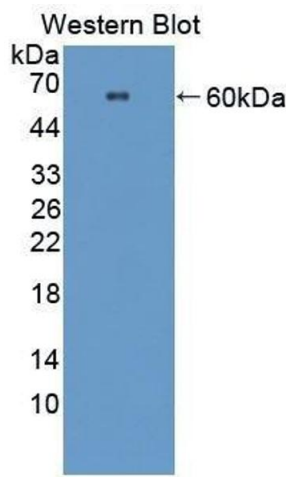
Handling

Expiry Date: 24 months

Publications

Product cited in: Germundson, Smith, Vendsel, Kelsch, Combs, Nagamoto-Combs: "Oral sensitization to whey proteins induces age- and sex-dependent behavioral abnormality and neuroinflammatory responses in a mouse model of food allergy: a potential role of mast cells." in: **Journal of neuroinflammation**, Vol. 15, Issue 1, pp. 120, (2019) ([PubMed](#)).

Images



Western Blotting

Image 1.



Western Blotting

**Image 2.** Western Blot; Sample: Porcine Liver Lysate; Primary Ab: 5µg/ml Rabbit Anti-Porcine CDHE Antibody Second Ab: 0.2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



## Successfully validated (Immunofluorescence (IF))

by [Sackler School of Biomedical Sciences, Tufts University School of Medicine](#)

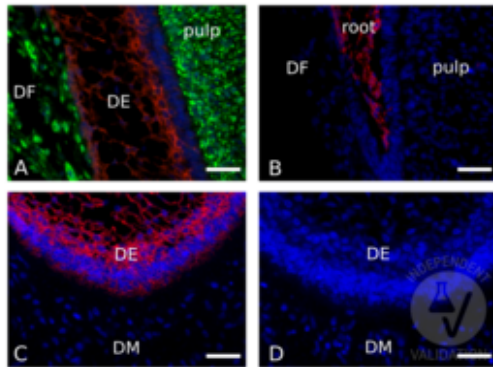
Report Number: 101345

Date: Jun 05 2017

Target:	E-cadherin
Lot Number:	A20160427539
Method validated:	Immunofluorescence (IF)
Positive Control:	porcine unerupted tooth buds, dental epithelium
Negative Control:	porcine unerupted tooth buds, mesenchym
Notes:	Passed. The E-cadherin antibody ABIN1858334 specifically labels epithelial tissues in porcine unerupted tooth buds in immunofluorescence, consistent with the expression pattern of E-cadherin.
Primary Antibody:	ABIN1858334
Secondary Antibody:	goat anti-rabbit AF568 conjugated antibody (ThermoFisher Scientific, A11011, lot 1778025)
Protocol:	<ul style="list-style-type: none"> <li>• Harvest unerupted tooth buds from 5 month old pig jaws and wash 3x in phosphate buffered saline (PBS) (Boston Bioproducts, BM-220).</li> <li>• Fix tooth buds in 10% Formalin (Fisher Scientific, 23-245-685) for 24h.</li> <li>• Wash 3x in PBS.</li> <li>• Place tooth buds through graded ethanol series for 6h at each concentration: 50%, 70%, 80%, 90%, 100%, 100%, 100%.</li> <li>• Place tooth buds in 3x 2h in 100% xylene.</li> <li>• Place in molten paraffin 2x (TissuePrep 2 Paraffin, Fisher, T555-2) 12h.</li> <li>• Embed tooth buds in paraffin and cool on a 4°C cold plate for 1h.</li> <li>• Let set ON at RT.</li> <li>• Cut blocks into 6µm sections using a microtome (ThermoFisher Scientific, HM 355S).</li> <li>• Use a tissue floating bath to mount sections onto microscope slides.</li> <li>• Heat sections on a hot plate for 1h at 45°C for 1h then ON at 55°C.</li> <li>• Deparaffinize slide 2x 5 min in 100% xylene.</li> <li>• Rehydrate sections in graded ethanol series for 2min for each concentration: 100%, 95%, 70%, 50%.</li> <li>• Place slide in H<sub>2</sub>O for 5min.</li> <li>• Transfer slide to a plastic holder filled with warmed 10mM Citric Acid Solution (made from sodium citrate monobasic; Sigma, 71497) pH6.0 and incubate in a steamer for 20min.</li> <li>• Cool submerged slide on benchtop for 30min.</li> </ul>

- Wash slide 3x 5min in PBS.
- Create a hydrophobic barrier on slide around sections with PAP-pen (Vector Labs, H-4000, lot 5138).
- Place slide in a humidified chamber and block with 5% BSA for 20min at 37°C.
- Gently remove BSA by tapping slide.
- Incubate sections with primary antibody
  - rabbit anti-pig E-cadherin antibody (antibodies-online, ABIN1858334, lot A20160408626) diluted to 1:40 in 1% BSA or
  - and mouse anti-pig Vimentin (Santa Cruz Biotechnology, SC-6260, lot G2814) diluted to 1:500 in 1% BSA for 1h at RT.
- A no primary antibody negative control was incubated in parallel in 1% BSA.
- Wash in slide 3x 5min in PBS.
- Incubate sections in secondary antibodies
  - goat anti-rabbit AF568 conjugated antibody (ThermoFisher Scientific, A11011, lot 1778025) diluted to 1:100 in 1% BSA and
  - goat anti-mouse AF488 conjugated antibody (ThermoFisher Scientific, A11001, lot 1752514 ) diluted to 1:100 in 1% BSA for 1h at RT.
- Wash in slide 3x 5min in PBS.
- Add approximately 10µL of Hard Set Mounting Medium with DAPI (Vector Labs, H-1500, lot ZC1221) for each section and mount cover slip.

## Image for Validation report #101345



### Validation image no. 1 for anti-Cadherin 1, Type 1, E-Cadherin (Epithelial) (CDH1) (AA 375-631) antibody (ABIN1858334)

A. ABIN1858334 stains the dental epithelium (DE, red) in pig tooth buds whereas the dental follicle (DF) and the pulp – labeled with the mesenchymal marker Vimentin (green) – remain unstained. B. Staining of the dental epithelial root tissue with ABIN1858334. C. Immunostaining of the DE with ABIN1858334. No staining of dental mesenchyma (DM) by ABIN1858334 or of the dental epithelium when using the secondary antibody alone (panel D). 40X, Scale Bar 50µm, 150 Resolution