

Datasheet for ABIN1048579  
**anti-ERP44 antibody (Internal Region)**



[Go to Product page](#)

3 Images

## Overview

Quantity:	50 µg
Target:	ERP44
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat, Cow, Rabbit, Dog, Horse, Monkey, Guinea Pig, Pig, Bat, Chicken, Xenopus laevis
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 20 amino acid peptide from internal region of human ERP44 / TXNDC4. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Monkey, Galago, Marmoset, Mouse, Rat, Elephant, Panda, Dog, Bat, Bovine, Horse, Rabbit, Pig, Guinea pig, Turkey, Zebra finch, Chicken, Platypus, Lizard, Xenopus (100%), Opossum, Stickleback, Medaka, Pufferfish, Zebrafish (95%).  Type of Immunogen: Synthetic peptide
Specificity:	Human ERP44 / TXNDC4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Monkey, Galago, Marmoset, Mouse, Rat, Elephant, Panda, Dog, Bat, Bovine, Horse,

## Product Details

---

Rabbit, Pig, Guinea pig, Turkey, Zebra finch, Chicken, Platypus, Lizard, Xenopus (100%)  
Opossum, Stickleback, Medaka, Pufferfish, Zebrafish (95%).

Purification: Immunoaffinity purified

## Target Details

---

Target: ERP44

Alternative Name: ERP44 ([ERP44 Products](#))

Background: Name/Gene ID: ERP44

Synonyms: ERP44, ER protein 44, PDIA10, TXNDC4, KIAA0573

Gene ID: 23071

Pathways: [Cell RedoxHomeostasis](#), [SARS-CoV-2 Protein Interactome](#)

## Application Details

---

Application Notes: Approved: IHC, IHC-P (15 - 20 µg/mL)

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

### Tissue Preparation

Formalin fixation and embedding in paraffin wax

### Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

### Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

### Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

### Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

### Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

---

Restrictions: For Research Use only

### Handling

---

Format: Liquid

Concentration: Lot specific

Buffer: PBS, less than 0.1 % sodium azide.

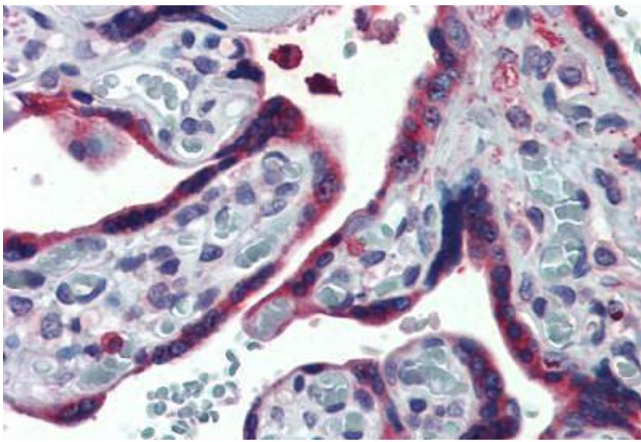
Preservative: Sodium azide

---

## Handling

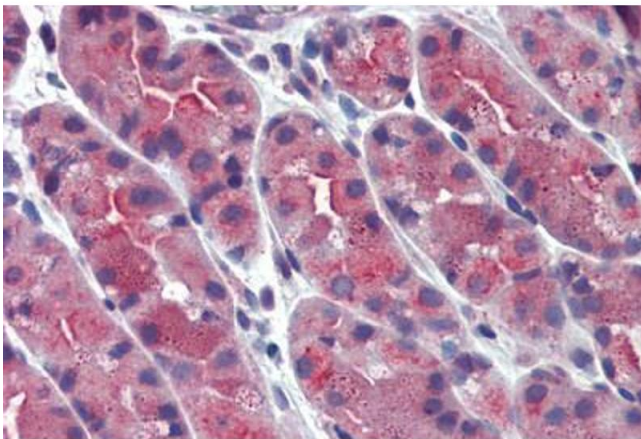
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

## Images



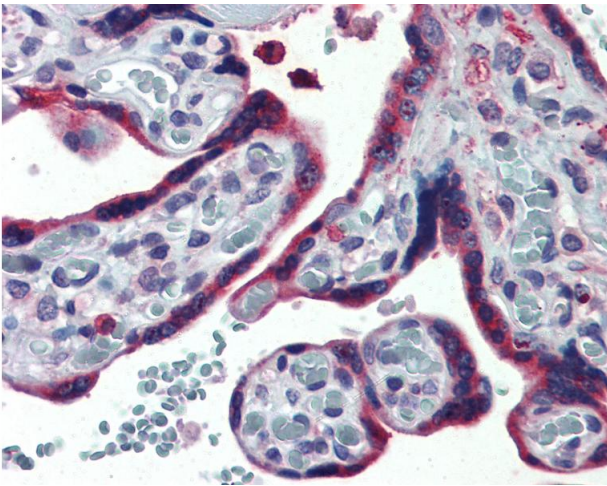
### Immunohistochemistry

**Image 1.** Anti-ERP44 / TXNDC4 antibody ABIN1048579 IHC staining of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 2.** Anti-ERP44 / TXNDC4 antibody ABIN1048579 IHC staining of human stomach. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 3.** Anti-ERP44 / TXNDC4 antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.