

Datasheet for ABIN5519074
anti-WFDC2 antibody (AA 31-168)

6 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	WFDC2
Binding Specificity:	AA 31-168
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for HE4 detection. Tested with WB, IHC-P, Direct ELISA in Mouse,Rat.
Immunogen:	E. coli-derived rat HE4 recombinant protein (Position: E31-F168).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for HE4 detection. Tested with WB, IHC-P, Direct ELISA in Mouse,Rat.</p> <p>Gene Name: WAP four-disulfide core domain 2</p> <p>Protein Name: WAP four-disulfide core domain protein 2</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	WFDC2
Alternative Name:	Wfdc2 (WFDC2 Products)
Background:	<p>WAP four-disulfide core domain protein 2, also known as Human Epididymis Protein 4 (HE4), is a protein that in humans is encoded by the WFDC2 gene. This gene encodes a protein that is a member of the WFDC domain family. The WFDC domain, or WAP Signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor in many family members. This gene is expressed in pulmonary epithelial cells, and was also found to be expressed in some ovarian cancers. The encoded protein is a small secretory protein, which may be involved in sperm maturation.</p> <p>Synonyms: WAP four-disulfide core domain protein 2, Epididymal secretory protein 4, RE4, Wfdc2</p>
Gene ID:	286888

Application Details

Application Notes:	Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
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

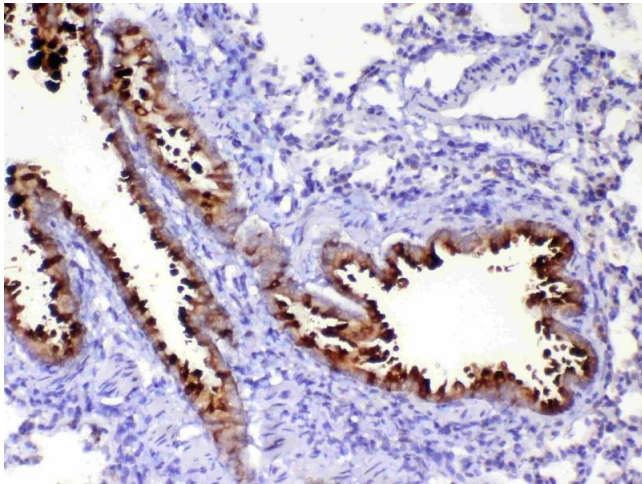
Handling

Storage Comment:

At -20°C for one year. After reconstitution, at 4°C for one month.

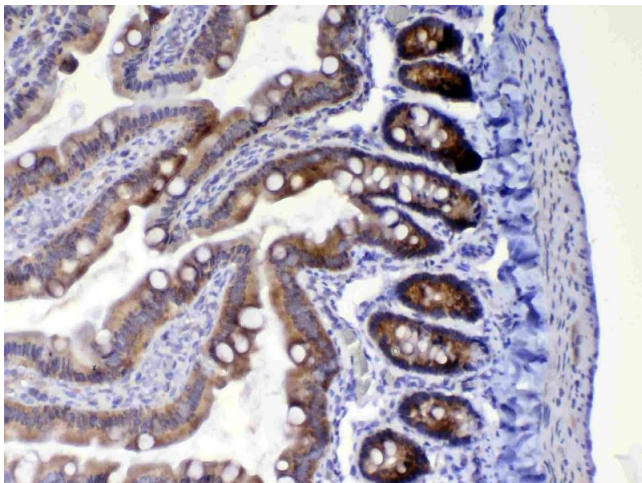
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



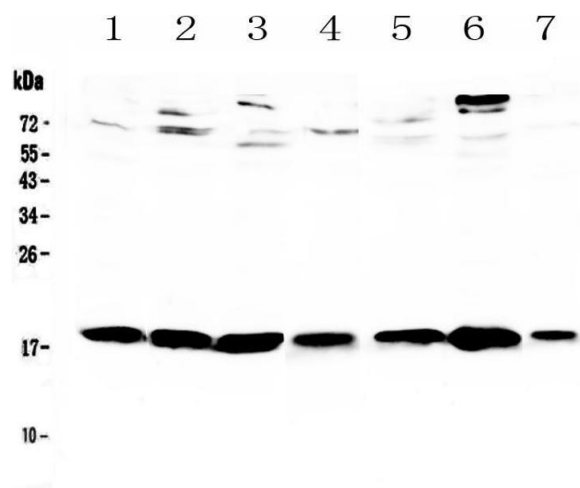
Immunohistochemistry

Image 1. IHC analysis of HE4 using anti-HE4 antibody .HE4 was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-HE4 Antibody overnight at 4â„ƒ. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37â„ƒ. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry

Image 2. IHC analysis of HE4 using anti-HE4 antibody .HE4 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-HE4 Antibody overnight at 4â„ƒ. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37â„ƒ. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Western Blotting

Image 3. Western blot analysis of HE4 using anti-HE4 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat testis tissue lysates, Lane 2: rat brain tissue lysates, Lane 3: rat thymus tissue lysates, Lane 4: mouse testis tissue lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse thymus tissue lysates, Lane 7: mouse HEPA1-6 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HE4 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HE4 at approximately 19KD. The expected band size for HE4 is at 13KD.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN5519074.