

### Anti-BACE2 antibody ab5670

[4 References](#) [2 Images](#)

#### Overview

<b>Product name</b>	Anti-BACE2 antibody
<b>Description</b>	Rabbit polyclonal to BACE2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human BACE2 aa 441-457. Sequence: VSEISGPFSTEDIASNC

(Peptide available as [ab5869](#))

 [Run BLAST with](#)

 [Run BLAST with](#)

#### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: 99% PBS, 0.1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab5670 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 2 µg/ml.
ICC/IF		1/10 - 1/200.

## Target

### Function

Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cleaves APP, between residues 690 and 691, leading to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase. It has also been shown that it can cleave APP between residues 671 and 672.

### Tissue specificity

Brain. Present in neurons within the hippocampus, frontal cortex and temporal cortex (at protein level). Expressed at low levels in most peripheral tissues and at higher levels in colon, kidney, pancreas, placenta, prostate, stomach and trachea. Expressed at low levels in the brain. Found in spinal cord, medulla oblongata, substantia nigra and locus coeruleus. Expressed in the ductal epithelium of both normal and malignant prostate.

### Sequence similarities

Belongs to the peptidase A1 family.

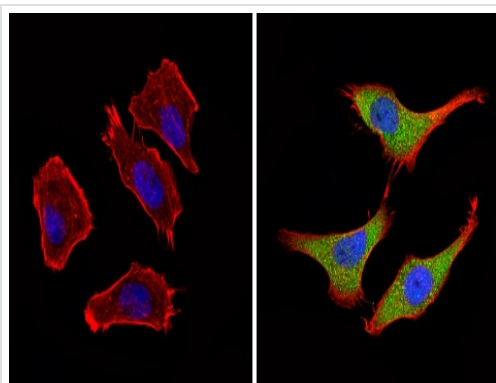
### Post-translational modifications

Undergoes autoproteolytic cleavage.  
Glycosylated.

### Cellular localization

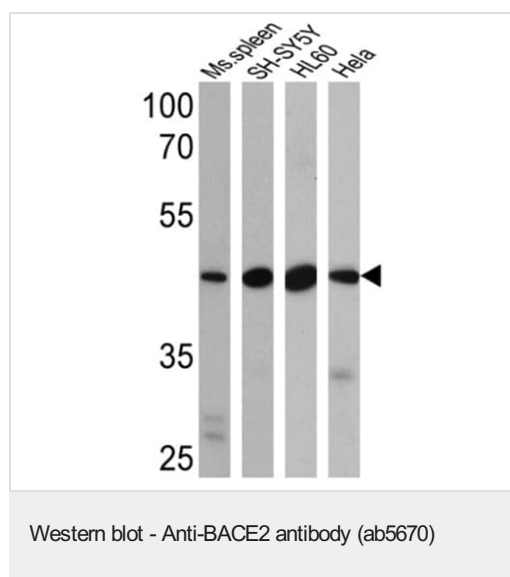
Membrane. Golgi apparatus. Endoplasmic reticulum. Endosome. Cell surface.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-BACE2 antibody (ab5670)

Immunocytochemistry/Immunofluorescence analysis of BACE2 (green) showing staining in the nucleus and cytoplasm of A549 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with ab5670 in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



**All lanes :** Anti-BACE2 antibody (ab5670) at 1/500 dilution

**Lane 1 :** Mouse spleen cell lysate

**Lane 2 :** SH-SY5Y cell lysate

**Lane 3 :** HL60 cell lysate

**Lane 4 :** HeLa cell lysate

Lysates/proteins at 25 µg per lane.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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