


## Product datasheet

# Anti-Keap1 antibody - N-terminal ab166721

[2 Images](#)

### Overview

<b>Product name</b>	Anti-Keap1 antibody - N-terminal
<b>Description</b>	Goat polyclonal to Keap1 - N-terminal
<b>Host species</b>	Goat
<b>Specificity</b>	Reported variants represent identical protein: NP_036421.2 and NP_987096.1.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Horse, Hamster, Cow, Dog, Pig, Monkey, Gorilla, Common marmoset, Orangutan 
<b>Immunogen</b>	Synthetic peptide with a Cysteine residue linker, corresponding to N terminal amino acids 41-53 of Human Keap1 (NP_036421.2). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	NIH 3T3 lysate; Human Brain, cerebellum tissue.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab166721** in the following tested applications.

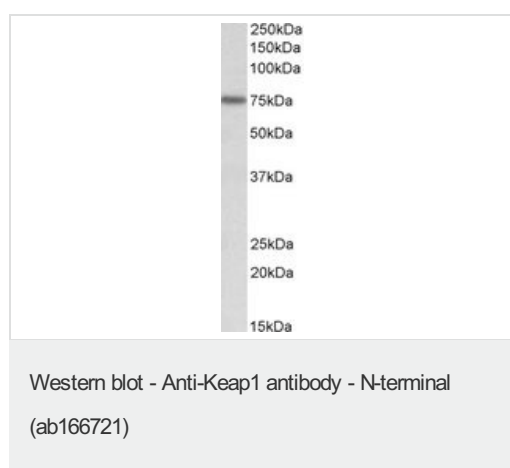
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 0.6 µg/ml. Predicted molecular weight: 70 kDa.
IHC-P		Use a concentration of 3.75 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	Retains NFE2L2/NRF2 in the cytosol. Functions as substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1. Targets NFE2L2/NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and the repression of antioxidant response element-mediated detoxifying enzyme gene expression. May also retain BPTF in the cytosol. Targets PGAM5 for ubiquitination and degradation by the proteasome.
<b>Tissue specificity</b>	Broadly expressed, with highest levels in skeletal muscle.
<b>Sequence similarities</b>	Contains 1 BACK (BTB/Kelch associated) domain. Contains 1 BTB (POZ) domain. Contains 6 Kelch repeats.
<b>Domain</b>	The Kelch repeats mediate interaction with NFE2L2/NRF2, BPTF and PGAM5.
<b>Post-translational modifications</b>	Ubiquitinated and subject to proteasomal degradation.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Shuttles between cytoplasm and nucleus.

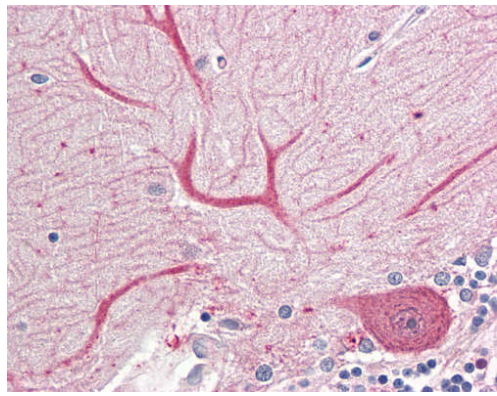
## Images



Anti-Keap1 antibody - N-terminal (ab166721) at 0.2 µg/ml + NIH 3T3 lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

**Predicted band size:** 70 kDa



Immunohistochemical analysis of Formalin-Fixed, Paraffin-Embedded Human Brain Cerebellum tissue labeling Keap1 with ab166721 at 3.75 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Keap1 antibody - N-terminal (ab166721)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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