

## Product datasheet

# Anti-Keap1 antibody [1B4] ab119403

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### Overview

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<b>Product name</b>	Anti-Keap1 antibody [1B4]
<b>Description</b>	Mouse monoclonal [1B4] to Keap1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant full length Human Keap1 produced in HEK293T cells (NP_987096).
<b>Positive control</b>	HEK293T cell lysate transfected with pCMV6-ENTRY Keap1 cDNA; HEK293T cells transfected with pCMV6-ENTRY Keap1 overexpress plasmid; Jurkat and HeLa cells; Human endometrium, endometrium adenocarcinoma and bladder carcinoma tissues.
<b>General notes</b>	Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 1% BSA, 50% Glycerol
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	ab119403 was purified from TCS by affinity chromatography.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1B4
<b>Isotype</b>	IgG1

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab119403** in the following tested applications.

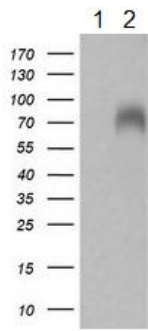
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 70 kDa.
IHC-P		1/150.
Flow Cyt		1/100. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## 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



Western blot - Anti-Keap1 antibody [1B4]  
(ab119403)

**All lanes :** Anti-Keap1 antibody [1B4]  
(ab119403) at 1/500 dilution

**Lane 1 :** HEK293T cell lysate transfected with  
pCMV6-ENTRY control cDNA

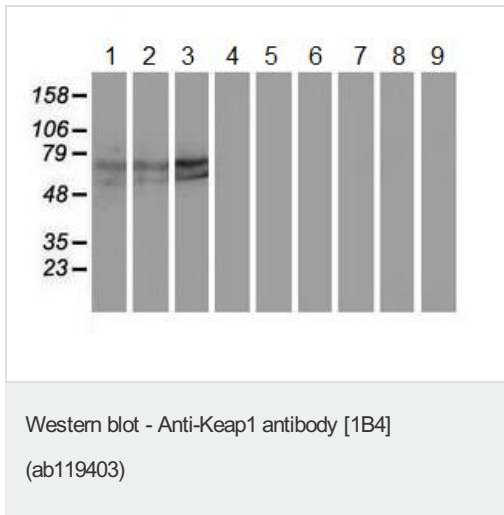
**Lane 2 :** HEK293T cell lysate transfected with  
pCMV6-ENTRY Keap1 cDNA

Lysates/proteins at 5 µg per lane.

Developed using the ECL technique.

**Predicted band size:** 70 kDa

HEK293T cell lysates were generated from  
transient transfection of the cDNA clone  
(RC202189)



**All lanes :** Anti-Keap1 antibody [1B4]  
(ab119403) at 1/500 dilution

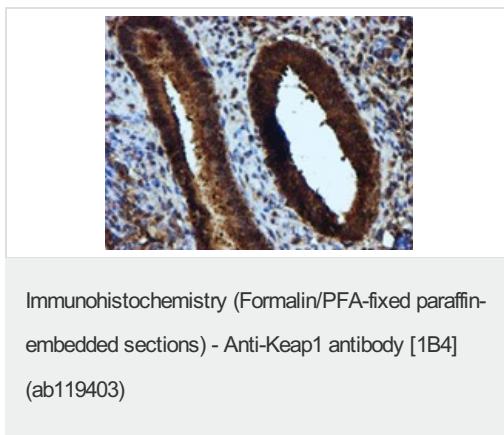
- Lane 1 :** HepG2 cell extract
- Lane 2 :** HeLa cell extract
- Lane 3 :** SVT2 cell extract
- Lane 4 :** A549 cell extract
- Lane 5 :** COS7 cell extract
- Lane 6 :** Jurkat cell extract
- Lane 7 :** MDCK cell extract
- Lane 8 :** PC12 cell extract
- Lane 9 :** MCF7 cell extract

Lysates/proteins at 35 µg per lane.

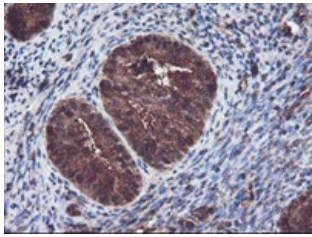
Developed using the ECL technique.

**Predicted band size:** 70 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC202189)

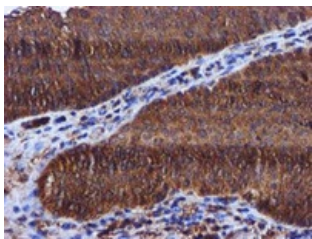


ab119403 at 1/150 dilution staining Keap1 in paraffin-embedded Human endometrium tissue by Immunohistochemistry.



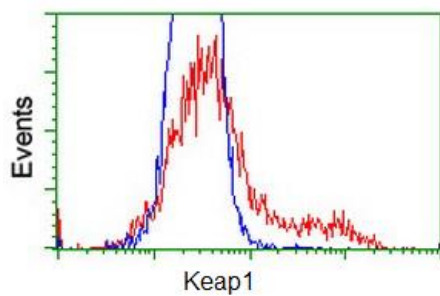
ab119403 at 1/150 dilution staining Keap1 in paraffin-embedded Human endometrium adenocarcinoma tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Keap1 antibody [1B4] (ab119403)



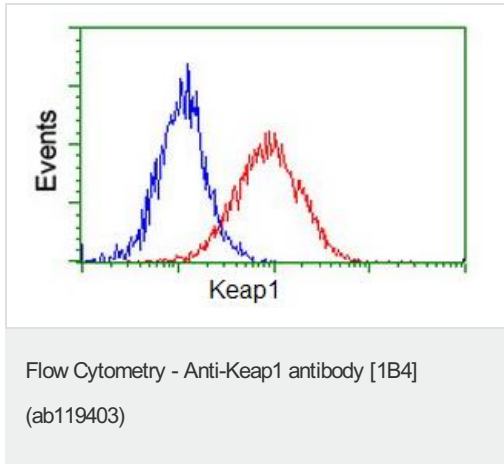
ab119403 at 1/150 dilution staining Keap1 in paraffin-embedded Human bladder carcinoma tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Keap1 antibody [1B4] (ab119403)

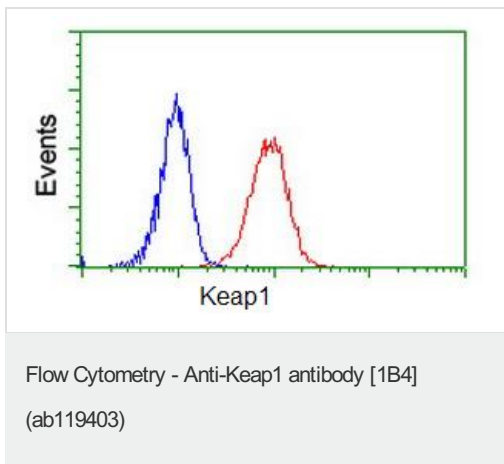


ab119403 at 1/100 dilution staining Keap1 in HEK293T cells transfected with either pCMV6-ENTRY Keap1 overexpress plasmid (Red) or empty vector control plasmid (Blue) and then analysed by Flow Cytometry.

Flow Cytometry - Anti-Keap1 antibody [1B4] (ab119403)



ab119403 at 1/100 dilution staining Keap1 in HeLa cells by Flow cytometry (Red) compared to a nonspecific negative control antibody (Blue).



ab119403 at 1/100 dilution staining Keap1 in Jurkat cells by Flow cytometry (Red) compared to a nonspecific negative control antibody (Blue).

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