

Product datasheet

Anti-Keap1 antibody [1B4] ab119403

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Overview

Product name	Anti-Keap1 antibody [1B4]
Description	Mouse monoclonal [1B4] to Keap1
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P, Flow Cyt
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant full length Human Keap1 produced in HEK293T cells (NP_987096).
Positive control	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.
General notes	Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. This product was changed from ascites to tissue culture supernatant on 6 th September 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

Properties

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

Applications

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

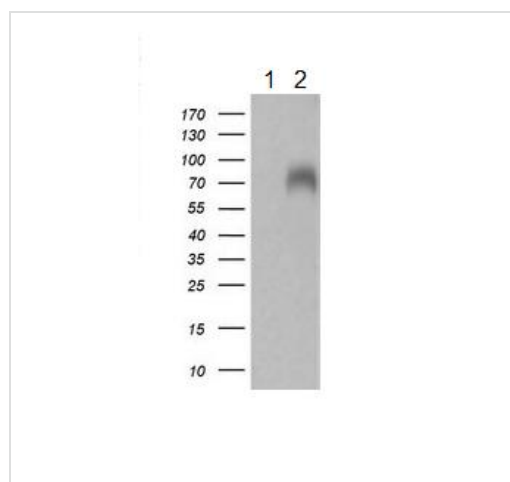
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Target

Function	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.
Tissue specificity	Broadly expressed, with highest levels in skeletal muscle.
Sequence similarities	Contains 1 BACK (BTB/Kelch associated) domain. Contains 1 BTB (POZ) domain. Contains 6 Kelch repeats.
Domain	The Kelch repeats mediate interaction with NFE2L2/NRF2, BPTF and PGAM5.
Post-translational modifications	Ubiquitinated and subject to proteasomal degradation.
Cellular localization	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

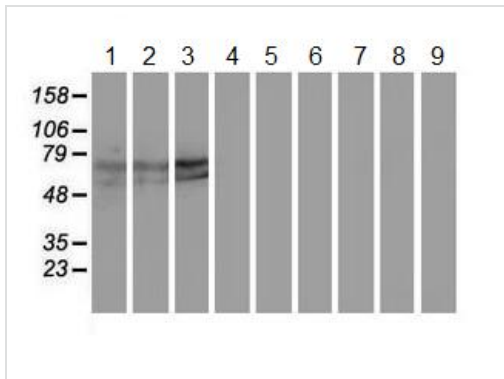
Lane 2 : HEK293T cell lysate transfected with pCMV6-ENTRY Keap1 cDNA

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)



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

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

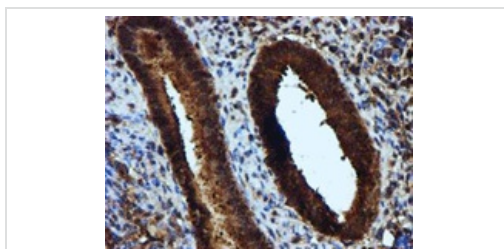
Lane 9 : MCF7 cell extract

Lysates/proteins at 35 µg per lane.

Developed using the ECL technique.

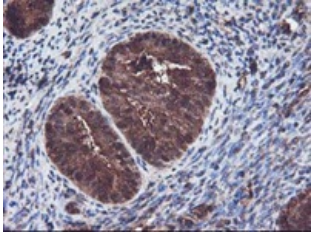
Predicted band size: 70 kDa

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



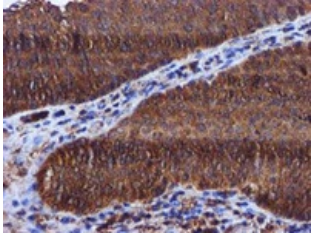
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Keap1 antibody [1B4]
(ab119403)

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



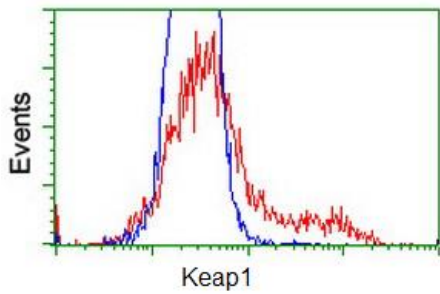
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Keap1 antibody [1B4] (ab119403)

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



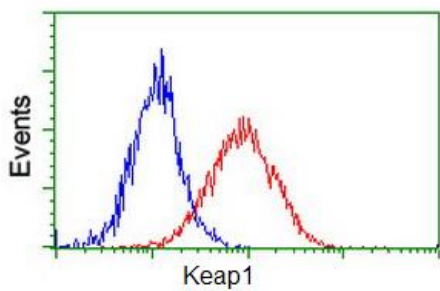
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Keap1 antibody [1B4] (ab119403)

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



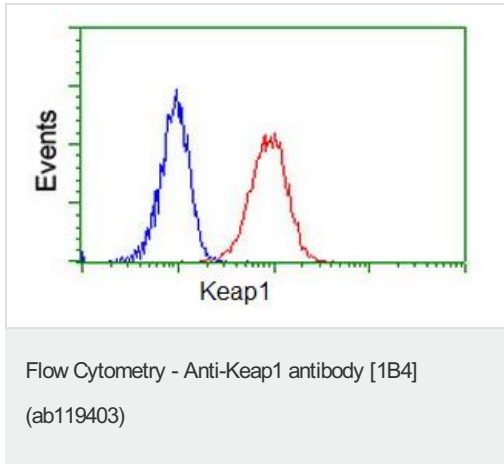
Flow Cytometry - Anti-Keap1 antibody [1B4] (ab119403)

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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