

Datasheet for 600-401-CE1**KEAP1 Antibody****Overview**

Description:	Anti-KEAP1 (RABBIT) Antibody - 600-401-CE1
Item No.:	600-401-CE1
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	KEAP1 (kelch-like ECH-associated protein 1) is a stress sensing adaptor for the Cullin3 (Cul3)-dependent E3 ubiquitin ligase complex that negatively regulates NRF2 (NF-E2-related factor 2) and plays a role in the oxidative stress response. It targets NFE2L2/NRF2 for ubiquitination and degradation by the proteasome. KEAP1 contains an amino terminal BTB/POZ domain and a carboxyl terminal KELCH domain which are required for interaction with NRF2, and in binding Cul3-E3 ubiquitin ligase. Altered expression of NRF2 is associated with chronic obstructive pulmonary disease (COPD). KEAP1 also targets the down regulation of NF-kB activity by targeting IKKb degradation. Mutation of the KEAP1 gene is found in lung cancer.
Synonyms:	KEAP1 Antibody, INrf2, KLHL19, INRF2, KIAA0132, Kelch-like ECH-associated protein 1, Cytosolic inhibitor of Nrf2, INrf2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	KEAP1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-KEAP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the C-terminus of human KEAP1. The immunogen is located within the last 50 amino acids of KEAP1.
Purity/Specificity:	Anti-KEAP1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two isoforms of KEAP1 are known to exist. Predicted species reactivity based on immunogen sequence: Pig: (100%)
Relevant Links:	• UniProtKB - Q14145 • GeneID - 9817 • NCBI - NP_987096

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-KEAP1 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 70 kDa in Western Blots of specific cell lysates and tissues. Positive controls used Human lung tissue, Daudi Cells, K562 Cells.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

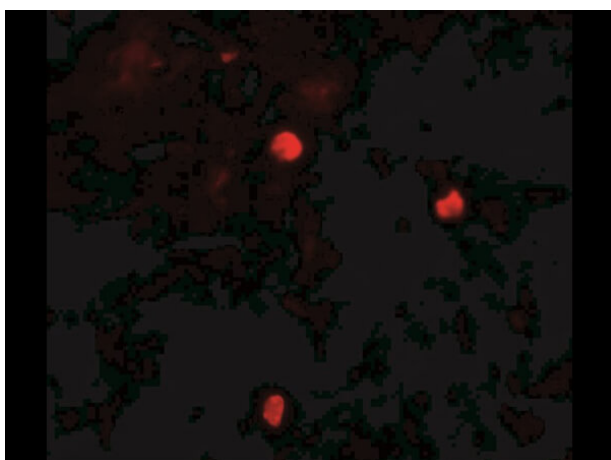
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

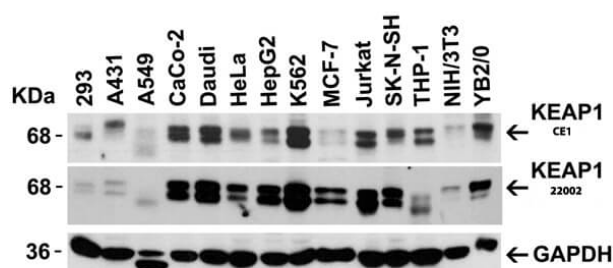
Expiration: Expiration date is one (1) year from date of receipt.

Images



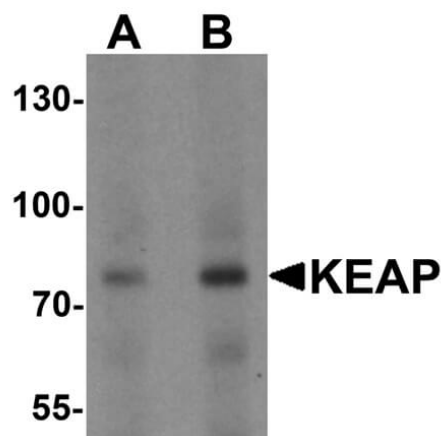
Immunofluorescence Microscopy

Immunofluorescence of Rabbit anti-KEAP1 Antibody. Tissue: Human Lung Tissue. Fixation: 4% paraformaldehyde. Primary Antibody: KEAP1 at 20µg/mL. Secondary Antibody: goat anti-rabbit IgG at 1/500 (red).



Western Blot

Western Blot of Rabbit Anti-KEAP1 Antibody. Loading: 15µg of lysates per lane. Primary Antibodies: KEAP1 (p/n 600-401-CE1) (2µg/mL), KEAP1 (22002) (2µg/mL), and GAPDH (0.02µg/mL), 1hr at RT in 5% NFDm/TBST. Secondary Antibody: Goat anti-rabbit IgG HRP conjugate at 1:10,000. Expect: ~70kDa.

**Western Blot**

Western Blot of Rabbit Anti-KEAP1 Antibody. Load: 15µg human lung lysates per lane. Primary Antibody: Lane A: 1µg/mL. Lane B: 2µg/mL. 1hr RT in 5% NFDm/TBST. Secondary Antibody: goat anti-rabbit IgG HRP at 1:10,000. Expect: ~70kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.