BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Angiotensin-converting enzyme ACE Antibody

Catalog Number: A00251-1

About ACE

Ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitinase activities. Involved in immune and inflammatory responses signaled by cytokines, such as TNF-alpha and IL-1 beta, or pathogens via Toll-like receptors (TLRs) through terminating NF-kappa-B activity. Essential component of a ubiquitin-editing protein complex, comprising also RNF11, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. In cooperation with TAX1BP1 promotes disassembly of E2-E3 ubiquitin protein ligase complexes in IL-1R and TNFR-1 pathways; affected are at least E3 ligases TRAF6, TRAF2 and BIRC2, and E2 ubiquitin-conjugating enzymes UBE2N and UBE2D3. In cooperation with TAX1BP1 promotes ubiquitination of UBE2N and proteasomal degradation of UBE2N and UBE2D3. Upon TNF stimulation, deubiquitinates 'Lys-63'-polyubiquitin chains on RIPK1 and catalyzes the formation of 'Lys-48'-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-mediated activation of NF-kappa-B. Deubiquitinates TRAF6 probably acting on 'Lys-63'-linked polyubiquitin. Upon T-cell receptor (TCR)-mediated T-cell activation, deubiquitinates 'Lys-63'-polyubiquitin chains on MALT1 thereby mediating disassociation of the CBM (CARD11:BCL10:MALT1) and IKK complexes and preventing sustained IKK activation. Deubiquitinates NEMO/IKBKG; the function is facilitated by TNIP1 and leads to inhibition of NF-kappa-B activation. Upon stimulation by bacterial peptidoglycans, probably deubiquitinates RIPK2. Can also inhibit I-kappa-B-kinase (IKK) through a non-catalytic mechanism which involves polyubiquitin; polyubiquitin promotes association with IKBKG and prevents IKK MAP3K7-mediated phosphorylation. Targets TRAF2 for lysosomal degradation. In vitro able to deubiquitinate 'Lys-11'-, 'Lys-48'- and 'Lys-63' polyubiquitin chains. Inhibitor of programmed cell death. Has a role in the function of the lymphoid system. Required for LPS-induced production of proinflammatory cytokines and IFN beta in LPS-tolerized macrophages.

Opipari A.W. Jr., J. Biol. Chem. 265:14705-14708(1990).
Mungall A.J., Nature 425:805-811(2003).
Eliopoulos A.G., J. Virol. 73:1023-1035(1999).

Overview

Product Name	Anti-Angiotensin-converting enzyme ACE Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Angiotensin-converting enzyme ACE Antibody catalog # A00251-1. Tested in WB,IHC,Flow Cytometry applications. This antibody reacts with Human,Mouse.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P12821

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Technical Details

Immunogen	Synthesized peptide derived from human HSF1 around the phosphorylation site of T142.
Predicted Reactive Species	Canine, Monkey
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	ProA affinity purified
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:500-1:2,000 IHC: 1:100-1:500 FC: 1:50-1:100

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Anti-Angiotensin-converting enzyme ACE Antibody (A00251-1) Images

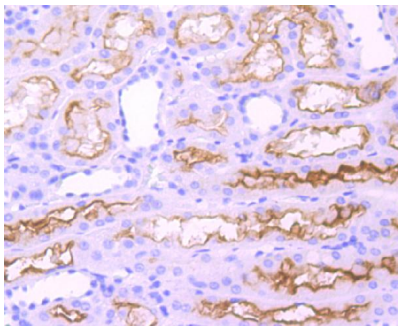

Figure 2. Immunohistochemistry validation of ACE using Anti-Angiotensin-converting enzyme ACE Antibody (A00251-1).

Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ACE antibody. Counter stained with hematoxylin.
For more protocol information of IHC

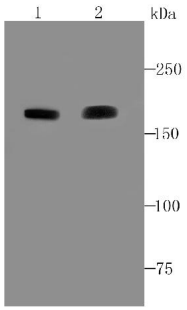

Figure 1. Western blotting validation for Anti-Angiotensin-converting enzyme ACE Antibody A00251-1

Western blot analysis of ACE on human lung (1) and mouse kidney (2) cell lysate using anti-ACE antibody at 1/1

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