

Anti-USP19 Antibody

Catalog Number: A05870-2

About USP19

Deubiquitinating enzyme that regulates the degradation of various proteins. Deubiquitinates and prevents proteasomal degradation of RNF123 which in turn stimulates CDKN1B ubiquitin-dependent degradation thereby playing a role in cell proliferation. Involved in decreased protein synthesis in atrophying skeletal muscle. Modulates transcription of major myofibrillar proteins. Also involved in turnover of endoplasmic-reticulum-associated degradation (ERAD) substrates. Regulates the stability of BIRC2/c-IAP1 and BIRC3/c-IAP2 by preventing their ubiquitination. Required for cells to mount an appropriate response to hypoxia and rescues HIF1A from degradation in a non-catalytic manner. Plays an important role in 17 beta-estradiol (E2)-inhibited myogenesis. Decreases the levels of ubiquitinated proteins during skeletal muscle formation and acts to repress myogenesis. Exhibits a preference towards 'Lys-63'-linked Ubiquitin chains.

Nagase T., DNA Res. 5:355-364(1998).

The MGC Project Team, Genome Res. 14:2121-2127(2004).

Beausoleil S.A., Proc. Natl. Acad. Sci. U.S.A. 101:12130-12135(2004).

Overview

Product Name	Anti-USP19 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-USP19 Antibody catalog # A05870-2. Tested in WB,IHC applications. This antibody reacts with Human,Mouse,Rat.
Application	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	O94966

Technical Details

Immunogen	Synthesized peptide derived from internal of human USP19.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml

Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:500-1:1000</p> <p>IHC: 1:50-1:200</p>

Anti-USP19 Antibody (A05870-2) Images

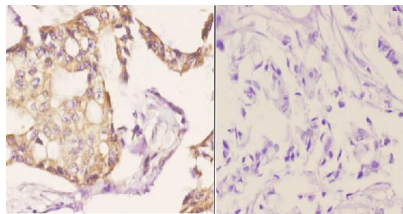


Figure 2. Immunohistochemistry validation of USP19 using Anti-USP19 Antibody (A05870-2).

Immunohistochemistry (IHC) analyzes of USP19 pAb in paraffin-embedded human breast carcinoma tissue at 1:50, showing endoplasmic reticulum membrane staining. Negative control (the right) Using PBS instead of primary antibody

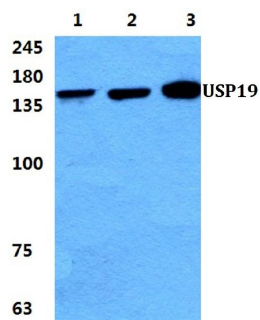


Figure 1. Western blotting validation for Anti-USP19 Antibody A05870-2

Western blot (WB) analysis of USP19 polyclonal antibody at 1:500 dilution

Lane1: MCF-7 cell lysate

Lane2: HEK293T cell lysate

Lane3: H9C2 cell lysate

Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

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