

Product datasheet

Anti-IRF2 antibody ab55333

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[4 Images](#)

Overview

Product name	Anti-IRF2 antibody
Description	Mouse monoclonal to IRF2
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment: MSELVPLQIS PVSSYAESET TDSVPSDEES AEGRPHWRKR NIEGKQYLSN MGTRGSYLLP GMA SFVTSNK PDLQVTIK EE SNPVPYNSSW PPFQDLPLSS , corresponding to amino acids 216-316 of Human IRF2 Run BLAST with ExPASy Run BLAST with NCBI
Positive control	<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> <p>Purchase matching WB positive control: Recombinant Human IRF2 protein ></p> </div>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab55333** in the following tested applications.

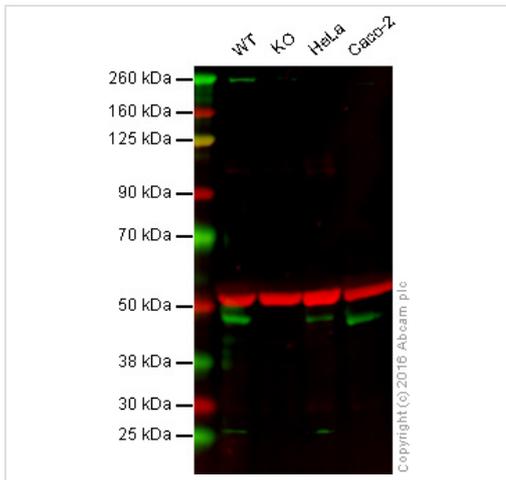
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 39 kDa.
IHC-P		Use a concentration of 3 µg/ml.
ICC/IF		Use a concentration of 10 µg/ml.

Target

Function	Specifically binds to the upstream regulatory region of type I IFN and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)) and represses those genes. Also acts as an activator for several genes including H4 and IL7. Constitutively binds to the ISRE promoter to activate IL7. Involved in cell cycle regulation through binding the site II (HiNF-M) promoter region of H4 and activating transcription during cell growth. Antagonizes IRF1 transcriptional activation.
Tissue specificity	Expressed throughout the epithelium of the colon. Also expressed in lamina propria.
Sequence similarities	Belongs to the IRF family. Contains 1 IRF tryptophan pentad repeat DNA-binding domain.
Post-translational modifications	Acetylated by CBP/ p300 during cell-growth. Acetylation on Lys-75 is required for stimulation of H4 promoter activity. The major sites of sumoylation are Lys-137 and Lys-293. Sumoylation by SUMO1 increases its transcriptional repressor activity on IRF1 and diminishes its ability to activate ISRE and H4 promoter.
Cellular localization	Nucleus.

Images



Western blot - Anti-IRF2 antibody (ab55333)

Lane 1: Wild type HAP1 whole cell lysate (20 μ g)

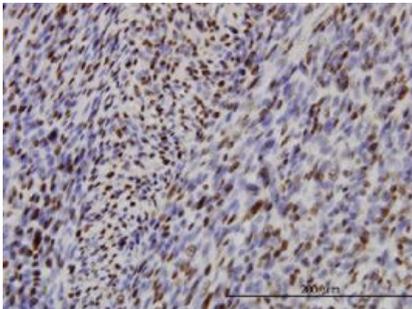
Lane 2: IRF2 knockout HAP1 whole cell lysate (20 μ g)

Lane 3: HeLa whole cell lysate (20 μ g)

Lane 4: CACO2 whole cell lysate (20 μ g)

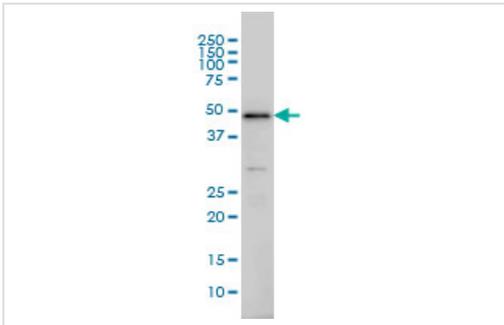
Lanes 1 - 4: Merged signal (red and green). Green - ab55333 observed at 48 kDa. Red - loading control, [ab176560](#), observed at 50 kDa.

ab55333 was shown to specifically react with IRF2 when IRF2 knockout samples were used. Wild-type and IRF2 knockout samples were subjected to SDS-PAGE. Ab55333 and [ab176560](#) (Rabbit anti alpha Tubulin loading control) were incubated overnight at 4°C at 1 μ g/ml and 1/10000 dilution respectively. Blots were developed with 800CW Goat anti Rabbit and 680CW Goat anti Mouse secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



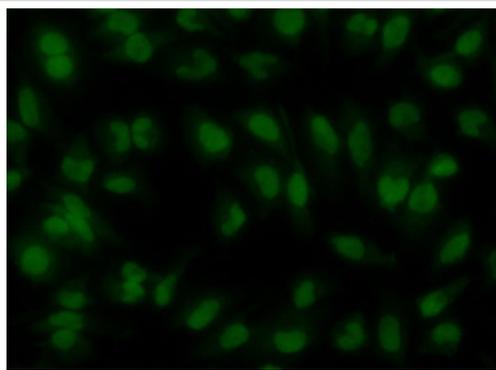
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF2 antibody (ab55333)

IRF2 antibody (ab55333) used in immunohistochemistry at 3 μ g/ml on formalin fixed and paraffin embedded human leiomyosarcoma.



Western blot - Anti-IRF2 antibody (ab55333)

IRF2 antibody (ab55333) at 1ug/lane + HeLa cell lysate at 25ug/lane.



Immunocytochemistry/ Immunofluorescence - Anti-IRF2 antibody (ab55333)

ab55333 at 10 ug/ml staining IRF2 in human Hella cells by Immunocytochemistry/ Immunofluorescence.

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