

Product datasheet

Anti-IRF4 antibody [EPR5653] - BSA and Azide free ab247962

Recombinant RabMAb

7 Images

Overview

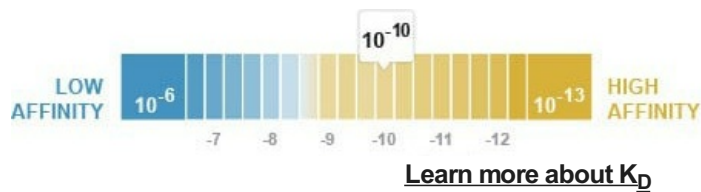
Product name	Anti-IRF4 antibody [EPR5653] - BSA and Azide free
Description	Rabbit monoclonal [EPR5653] to IRF4 - BSA and Azide free
Host species	Rabbit
Specificity	Uniprot ID - Q15306.
Tested applications	Suitable for: IHC-P, WB, IP, ChIP Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Ramos, HuT 78 and IM 9 cell lysates; IHC-P: Human colon and tonsil tissues. IP: Ramos lysate.
General notes	<p>ab247962 is the carrier-free version of ab124691.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	K _D = 4.18 x 10 ⁻¹⁰ M



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5653
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab247962 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

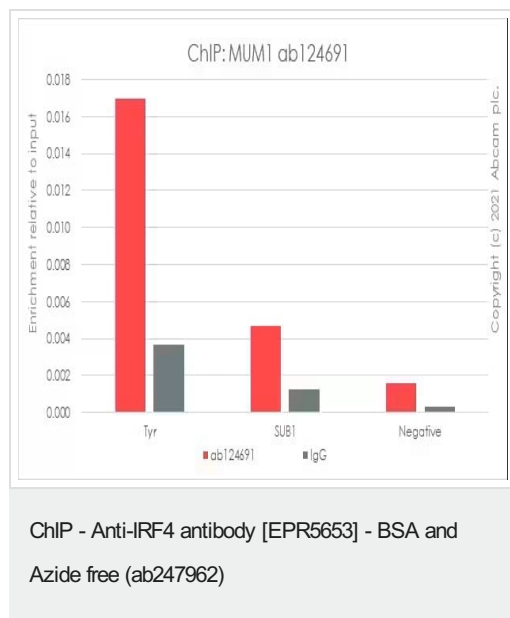
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 52 kDa (predicted molecular weight: 52 kDa).
IP		Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function	Transcriptional activator. Binds to the interferon-stimulated response element (ISRE) of the MHC class I promoter. Binds the immunoglobulin lambda light chain enhancer, together with PU.1. Probably plays a role in ISRE-targeted signal transduction mechanisms specific to lymphoid cells. Involved in CD8(+) dendritic cell differentiation by forming a complex with the BATF-JUNB heterodimer in immune cells, leading to recognition of AICE sequence (5'-TGAnTCA/GAAA-3'), an immune-specific regulatory element, followed by cooperative binding of BATF and IRF4 and activation of genes.
Tissue specificity	Lymphoid cells.
Involvement in disease	Multiple myeloma
Sequence similarities	Belongs to the IRF family. Contains 1 IRF tryptophan pentad repeat DNA-binding domain.
Post-translational modifications	Phosphorylation by ROCK2 regulates IL-17 and IL-21 production.
Cellular localization	Nucleus.

Images

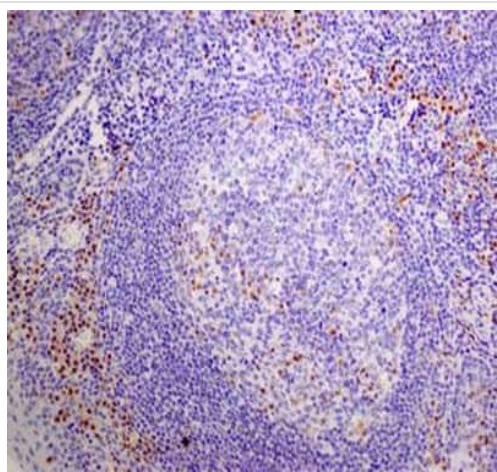


This data was developed using [ab124691](#), the same antibody clone in a different buffer formulation.

Chromatin was prepared from SK-MEL-28 cells according to the Abcam Dual-X-ChIP [protocol](#). Cells were fixed with 1.5 mM EGS for 30mins and then formaldehyde for 10min.

The ChIP was performed with 25 µg of chromatin, 5 µg of [ab124691](#) (red), or 5 µg of rabbit normal IgG [ab172730](#) (gray) and 25 µl of Protein A/G Dynabeads. The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

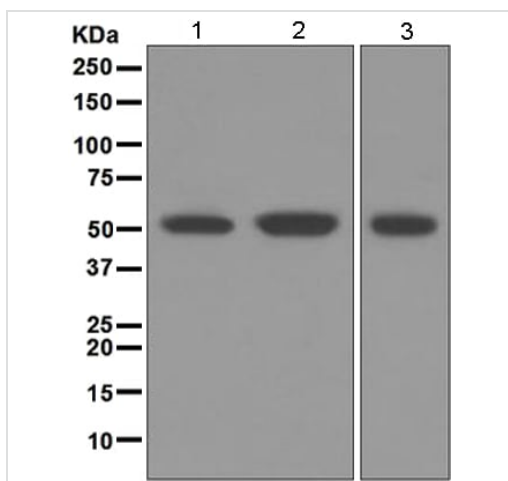
ChIP was performed according to the literature (PMID: 24267888)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF4 antibody [EPR5653]
- BSA and Azide free (ab247962)

This data was developed using **ab124691**, the same antibody clone in a different buffer formulation.

ab124691, at 1/100, staining IRF4 in paraffin-embedded Human tonsil tissue by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-IRF4 antibody [EPR5653] - BSA and Azide free (ab247962)

All lanes : Anti-IRF4 antibody [EPR5653] (**ab124691**) at 1/1000 dilution

Lane 1 : Ramos cell lysate

Lane 2 : HuT-78 cell lysate

Lane 3 : IM 9 cell lysate

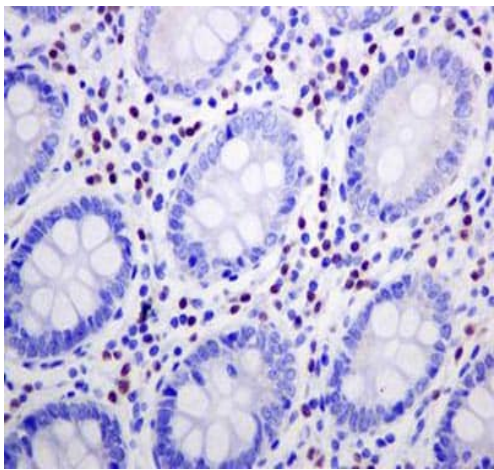
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP conjugated at 1/2000 dilution

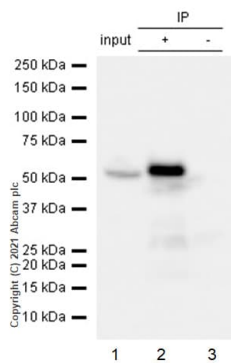
Predicted band size: 52 kDa

This data was developed using **ab124691**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF4 antibody [EPR5653]
- BSA and Azide free (ab247962)

This data was developed using **ab124691**, the same antibody clone in a different buffer formulation. **ab124691**, at 1/100, staining IRF4 in paraffin-embedded Human colon tissue by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunoprecipitation - Anti-IRF4 antibody [EPR5653]
- BSA and Azide free (ab247962)

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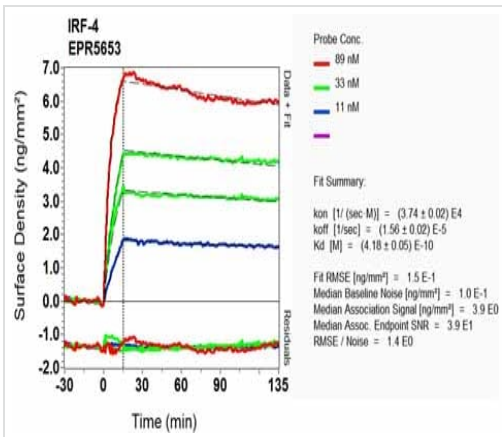
IRF4 was immunoprecipitated from 0.35 mg Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate 10 μ g with **ab124691** at 1/50 dilution (2 μ g). VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate 10 μ g

Lane 2: ab124691 IP in Ramos whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab124691** in Ramos whole cell lysate

Blocking and dilution buffer and concentration: 5% NFD/MTBST.



OI-RD Scanning - Anti-IRF4 antibody [EPR5653] - BSA and Azide free (ab247962)

This data was developed using [ab124691](#), the same antibody clone in a different buffer formulation. Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-IRF4 antibody [EPR5653] - BSA and Azide free (ab247962)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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