

Product datasheet

Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] ab178858

Recombinant RabMAb

[2 References](#) [11 Images](#)

Overview

Product name	Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586]
Description	Rabbit monoclonal [EPR16586] to JunD (phospho S100) + c-Jun (phospho S73)
Host species	Rabbit
Tested applications	Suitable for: Dot blot, IP, IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa untreated and treated with 250 ng/ml Anisomycin for 30 minutes whole cell lysates; NIH/3T3 untreated and treated with 250 ng/ml Anisomycin for 30 minutes whole cell lysates; RAW 264.7 and PC-12 whole cell lysates. IHC-P: Human tonsil, mouse testis and rat liver tissues. IP: HeLa treated with 250ng/ml Anisomycin for 30 minutes whole cell extract.
General notes	<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> <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.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR16586

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab178858 in the following tested applications.

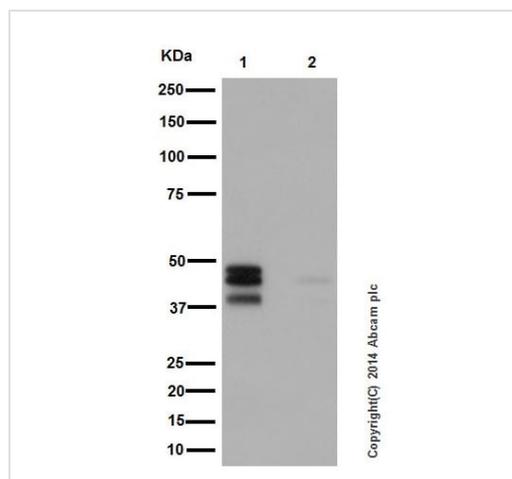
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Dot blot		1/1000.
IP		1/100.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 40,45,48 kDa (predicted molecular weight: 36 kDa).

Target

Cellular localization JunD: Nucleus. c-Jun: Nucleus.

Images



Western blot - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

All lanes : Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858) at 1/10000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) treated with 250 ng/ml Anisomycin for 30 minutes whole cell lysate

Lane 2 : Untreated HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG,(H+L), Peroxidase conjugated at 1/1000 dilution

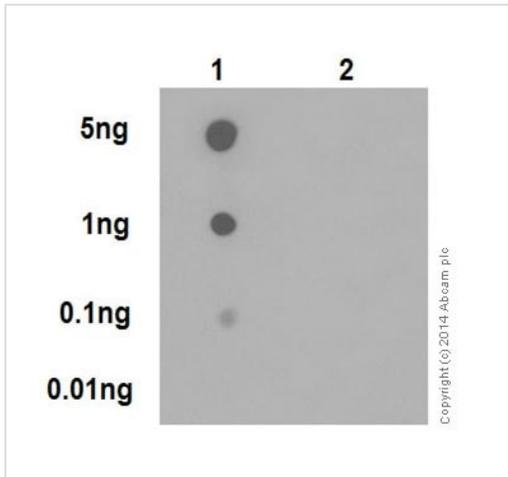
Predicted band size: 36 kDa

Observed band size: 40,45,48 kDa

Exposure time: 3 minutes

Blocking/dilution buffer: 5% NFDm/TBST.

Per the blast, ab178858 could recognize JunD (phospho Ser100) with 100% homology. Multi-bands are due to c-Jun (phospho Ser73) & JunD (phospho Ser100).

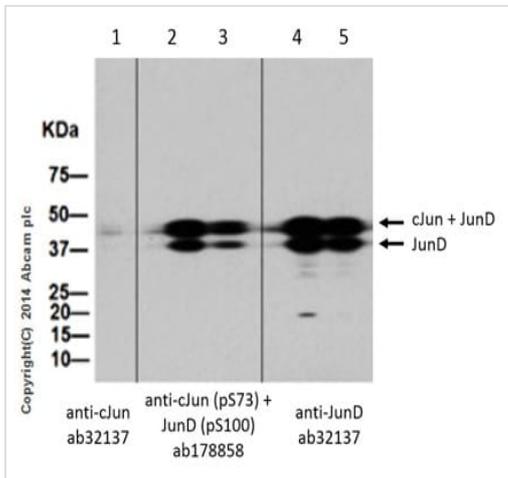


Dot Blot - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

Dot blot analysis of JunD (phospho S100) + c-Jun (phospho S73) peptide (Lane 1) and non-phospho peptide (Lane 2) labeled using ab178858 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 3 minutes.



Western blot - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

Lanes 1 & 4-5 : Anti-c-Jun antibody [E254] - ChIP Grade ([ab32137](#))

Lanes 2-3 : Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858) at 1/10000 dilution

Lanes 1 & 3 & 5 : Untreated HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lanes 2 & 4 : HeLa (Human epithelial cell line from cervix adenocarcinoma) treated with 250 ng/ml Anisomycin for 30 minutes whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

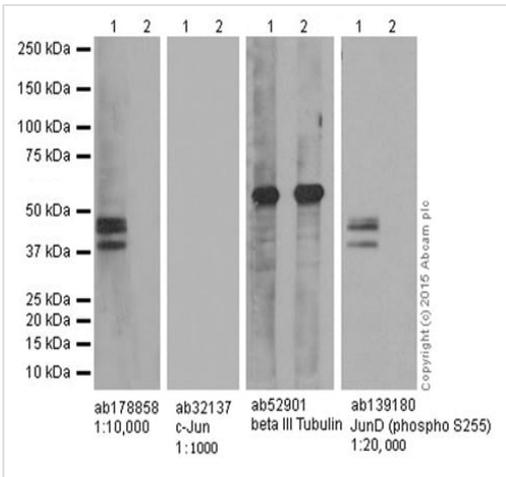
All lanes : Goat Anti-Rabbit IgG,(H+L),Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa

Observed band size: 40,45 kDa

Exposure time: 3 minutes

Blocking/dilution buffer: 5% NFDm/TBST.



Western blot - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

All lanes : Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858) at 1/10000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) treated with 250 ng/ml Anisomycin for 30 minutes whole cell lysate

Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) treated with 250 ng/ml Anisomycin for 30 minutes, whole cell lysate treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

Secondary

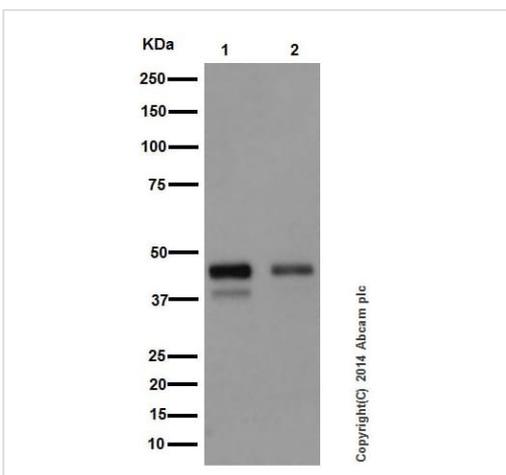
All lanes : Goat Anti-Rabbit IgG,(H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 36 kDa

Observed band size: 40,45 kDa

Exposure time: 3 minutes

Blocking/dilution buffer: 5% NFDm/TBST.



Western blot - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

All lanes : Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858) at 1/10000 dilution

Lane 1 : NIH/3T3 (Mouse embryo fibroblast cell line) treated with 250 ng/ml Anisomycin for 30 minutes whole cell lysate

Lane 2 : Untreated NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG,(H+L), Peroxidase conjugated at 1/1000 dilution

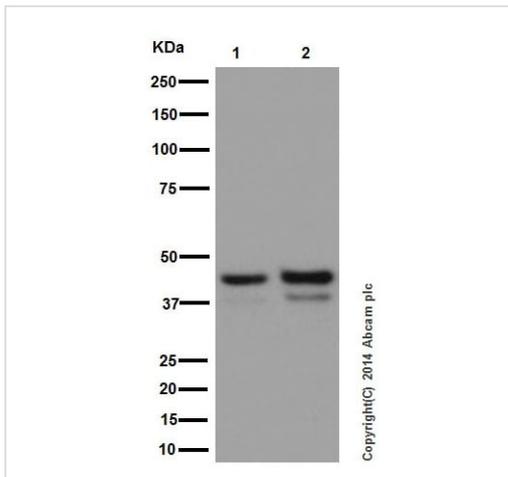
Predicted band size: 36 kDa

Observed band size: 40,45 kDa

Exposure time: 1 minute

Blocking/dilution buffer: 5% NFDm/TBST.

Per the blast, ab178858 could recognize JunD (phospho Ser100) with 100% homology. Multi-bands are due to c-Jun (phospho Ser73) & JunD (phospho Ser100).



Western blot - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

All lanes : Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858) at 1/1000 dilution

Lane 1 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG,(H+L), Peroxidase conjugated at 1/1000 dilution

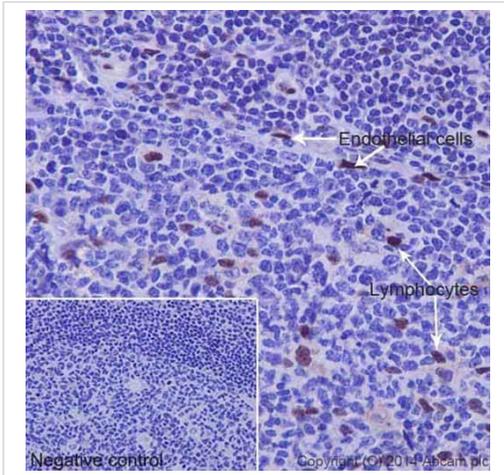
Predicted band size: 36 kDa

Observed band size: 40,45 kDa

Exposure time: 3 minutes

Blocking/dilution buffer: 5% NFDm/TBST.

Per the blast, ab178858 could recognize JunD (phospho Ser100) with 100% homology. Multi-bands are due to c-Jun (phospho Ser73) & JunD (phospho Ser100).

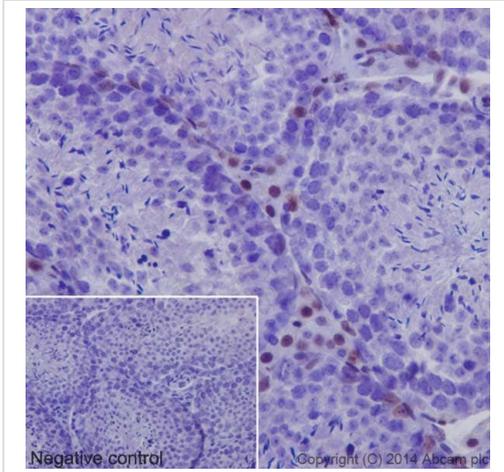


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling JunD (phospho S100) + c-Jun (phospho S73) with ab178858 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on lymphocytes and endothelial cells of Human tonsil is observed. Counter stained with Hematoxylin.

Negative Control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

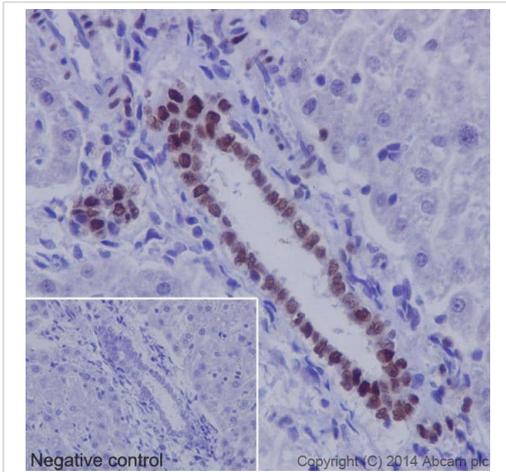


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue labeling JunD (phospho S100) + c-Jun (phospho S73) with ab178858 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on spermatogonia and Leydig cells of mouse testis is observed. Counter stained with Hematoxylin.

Negative Control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

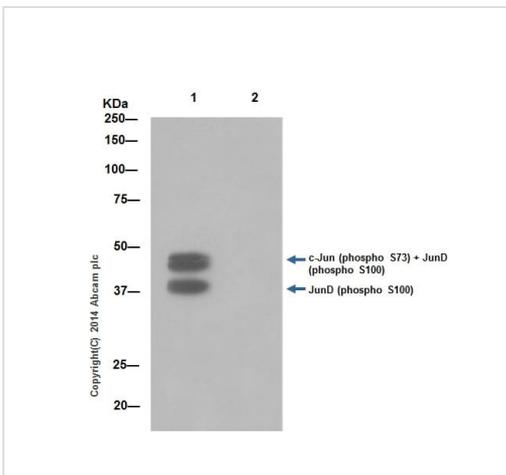


Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling JunD (phospho S100) + c-Jun (phospho S73) with ab178858 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Nuclear staining on bile duct epithelial cells while no staining on hepatocytes of rat liver is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)



JunD (phospho S100) + c-Jun (phospho S73) were immunoprecipitated from 1mg of HeLa (Human epithelial cell line from cervix adenocarcinoma), treated with 250ng/ml Anisomycin for 30 minutes, whole cell extract with ab178858 at 1/100 dilution. Western blot was performed from the immunoprecipitate using ab178858 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG was used as secondary antibody at 1/1500 dilution.

Lane 1: HeLa, treated with 250ng/ml Anisomycin for 30 minutes, whole cell extract

Lane 2: PBS.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds.

Immunoprecipitation - Anti-JunD (phospho S100) + c-Jun (phospho S73) antibody [EPR16586] (ab178858)

Per the blast, ab178858 could recognize JunD (phospho Ser100) with 100% homology. Multi-bands are due to c-Jun (phospho Ser73) & JunD (phospho Ser100)

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-JunD (phospho S100) + c-Jun (phospho S73)
antibody [EPR16586] (ab178858)

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

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