

Product datasheet

Anti-Oct-2 antibody [EPR542] ab92458

Recombinant **RabMAb**

[1 References](#) [5 Images](#)

Overview

Product name	Anti-Oct-2 antibody [EPR542]
Description	Rabbit monoclonal [EPR542] to Oct-2
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Oct-2 aa 150-250. The exact sequence is proprietary. Database link: P09086
Positive control	WB: Daudi cell lysate. IHC-P: Human tonsil tissue. Flow Cyt (intra): Raji cells. ICC/IF: Raji cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR542
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92458 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

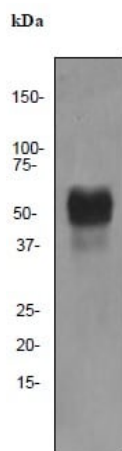
Application	Abreviews	Notes
Flow Cyt (Intra)		1/50. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/5000. Detects a band of approximately 58 kDa (predicted molecular weight: 51 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for IP.

Target

Function	Transcription factor that specifically binds to the octamer motif (5'-ATTTGCAT-3'). Regulates transcription in a number of tissues in addition to activating immunoglobulin gene expression. Modulates transcription transactivation by NR3C1, AR and PGR. Isoform 5 activates the U2 small nuclear RNA (snRNA) promoter.
Tissue specificity	Isoform 3 is B-cell specific. Isoform 5 is expressed in B-cells and the immunoglobulin-expressing T-cell line MOLT-4, but not in the T-cell line BW5147.
Sequence similarities	Belongs to the POU transcription factor family. Class-2 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain.
Cellular localization	Cytoplasm. Nucleus.

Images



Western blot - Anti-Oct-2 antibody [EPR542]
(ab92458)

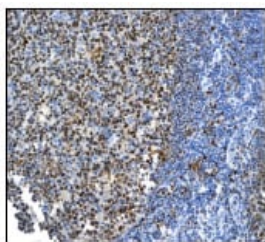
Anti-Oct-2 antibody [EPR542] (ab92458) at 1/1000 dilution + Daudi
(Human Burkitt's lymphoma cell line) lysate at 10 µg

Secondary

HRP conjugated goat anti-rabbit antibody at 1/2000 dilution

Predicted band size: 51 kDa

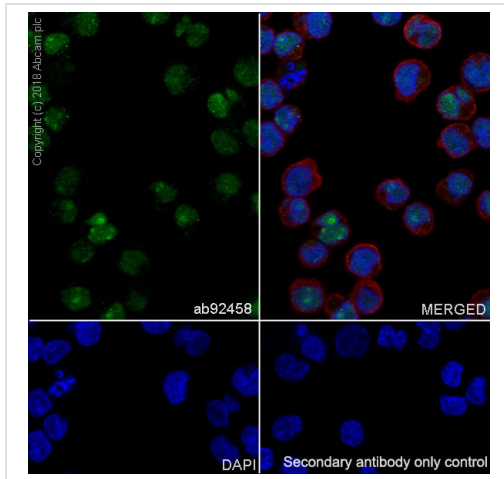
Observed band size: 58 kDa



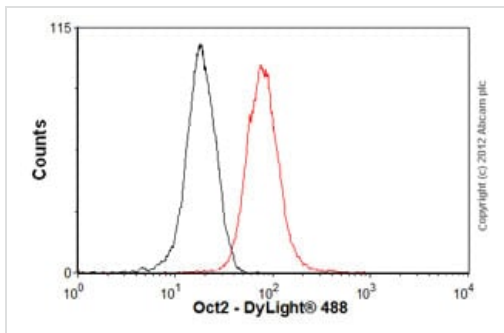
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Oct-2 antibody [EPR542]
(ab92458)

ab92458 at a 1:250 dilution staining Oct-2 in human tonsil (paraffin
embedded section) by immunohistochemistry.

Perform heat mediated antigen retrieval with EDTA buffer pH 9
before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Oct-2 antibody [EPR542] (ab92458)



Flow Cytometry (Intracellular) - Anti-Oct-2 antibody [EPR542] (ab92458)

Immunocytochemistry analysis of Raji (human Burkitt's lymphoma B lymphocyte) labeling 37530 with purified ab92458 at 1/500 dilution. Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/1000 (2 µg/ml) was used as the secondary antibody. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.19 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI. Negative control: PBS instead of the primary antibody.

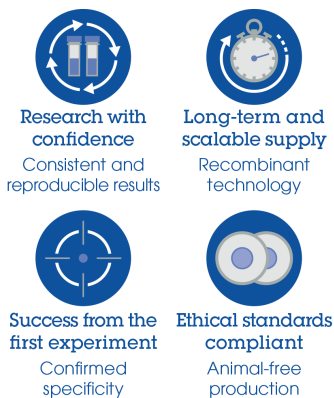
Overlay histogram showing Raji (Human Burkitt's lymphoma cell line) cells stained with ab92458 (red line).

The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab92458, 1/50) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C.

Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions.

Acquisition of >5,000 events was performed.

Why choose a recombinant antibody?



Anti-Oct-2 antibody [EPR542] (ab92458)

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