

Product datasheet

Anti-RAC2 antibody ab2244

7 References 3 Images

Overview

Product name	Anti-RAC2 antibody
Description	Goat polyclonal to RAC2
Host species	Goat
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide: PQPTRQQKRACSLL , corresponding to C terminal amino acids 179-192 of Human RAC2. Run BLAST with Run BLAST with
Positive control	Recombinant Human RAC2 protein (ab78684) can be used as a positive control in WB. MOLT4 or liver lysate.
General notes	Principal Names - RAC2; ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2); EN-7; Ras-related C3 botulinum toxin substrate 2; rho family, small GTP binding protein Rac2; Ras-related C3 botulinum toxin substrate 3 (rho family, small GTP); Gx; HSPC022. Official Gene Symbol - RAC2. GenBank Accession Number – NP_002863. LocusLink ID - 5880.

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: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab2244** in the following tested applications.

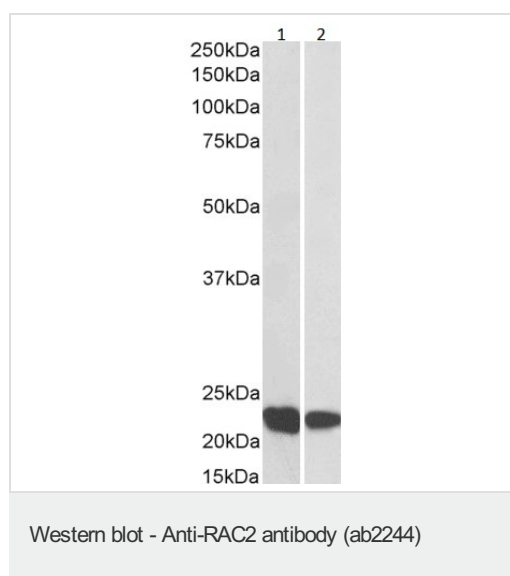
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 1 µg/ml. Predicted molecular weight: 21 kDa. Can be blocked with Human RAC2 peptide (ab22892) .
IHC-P		Use a concentration of 0.3 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. In Human Tonsil most cells in the mantle zone and interfollicular area are stained whilst those in the germinal centres remain negative.

Target

Function	Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytosis of apoptotic cells and epithelial cell polarization. Augments the production of reactive oxygen species (ROS) by NADPH oxidase.
Tissue specificity	Hematopoietic specific.
Involvement in disease	Defects in RAC2 are the cause of neutrophil immunodeficiency syndrome (NEUID) [MIM:608203].
Sequence similarities	Belongs to the small GTPase superfamily. Rho family.
Cellular localization	Cytoplasm. Membrane-associated when activated.
Form	Rac2 has high sequence homology with other Rac proteins. Therefore some antibodies may show cross-reactivity.

Images



All lanes : Anti-RAC2 antibody (ab2244) at 0.1 µg/ml

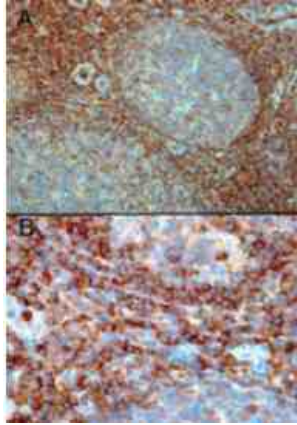
Lane 1 : Human thymus tissue lysate

Lane 2 : Human tonsil tissue lysate

Lysates/proteins at 35 µg per lane.

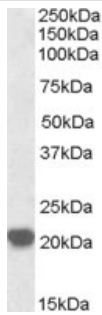
Predicted band size: 21 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAC2 antibody (ab2244)

Immunohistochemical analysis of paraffin embedded Human Tonsil tissue section labelling RAC2 with ab2244 (0.3µg/ml). Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining. A) Strong staining in the interfollicular area and mantle zone but the majority of cells in germinal centre are negative. B) Higher magnification of interfollicular area showing positive cells.



Western blot - Anti-RAC2 antibody (ab2244)

Anti-RAC2 antibody (ab2244) at 0.3 µg/ml + MOLT4 cell lysate at 35 µg

Predicted band size: 21 kDa

Observed band size: 20 kDa

[why is the actual band size different from the predicted?](#)

Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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