

Rabbit CD 45 Monoclonal Antibody | anti-CD 45 antibody

Anti - CD 45

CATALOG # AAA14929	HOST Rabbit	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

CD 45; Monoclonal Antibody; Anti - CD 45; anti-CD 45 antibody

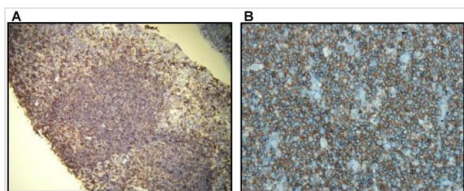
PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Monoclonal
Clone Number	E19-G
Specificity	Human
Form/Format	20 mM Tris-HCl, pH 8.0
Sequence Length	1304
Applicable Applications for anti-CD 45 antibody	IHC (Immunohistochemistry)

Application Notes	IHC-P dilution 1:100 IHC-P PROTOCOL-INSTRUCTION MANUAL: 1. Deparaffinize the section in 3 changes of xylene, 5 minutes each. 2. Wash the section in 96%, 80% and 70% ethyl alcohol for 10 minutes each. 3. Rinse in distilled water. 4. Block the endogenous peroxidase by incubating the tissue in 3% hydrogen peroxide (H₂O₂) for 10 minutes. 5. Wash in distilled water for 5 minutes. 6. For antigen retrieval: immerse the slide in the citrate buffer, pH 6.0, 0.05% Tween-20*, and incubate in water bath at 96-98 degree C for 30-40 minutes. (Alternatively adjust to your own protocol, keeping the required pH). 7. Transfer the slide to room temperature and let it cool down (in citrate buffer, pH 6.0) for 15 minutes. 8. Rinse in distilled water. 9. Wash in 0.05 M Tris-HCl, pH 7.6 buffer supplemented with 0.2% of Tween-20 (buffer A) for 5 minutes. 10. CONCENTRATED: Incubate the section with primary antibody at the dilution 1:100 for 1 hour in the closed wet chamber. READY TO USE (RTU): Incubate the section with primary antibody (ready to use) for 1 hour in a closed wet chamber. 11. Wash twice 5 minutes with buffer A. 12. Apply the secondary antibody (the protocol depends on the supplier), and proceed to standard immunohistochemistry protocol (HRP - Peroxide - DAB). Micropolymer-HRP detection kit rabbit/mouse dual is suggested. 13. Wash twice 5 minutes with buffer A. 14. Apply the chromogen (DAB), 1 - 3 minutes. 15. Wash in water for 10 minutes. 16. Stain in hematoxylin for 5 minutes. 17. Wash in water for 10 minutes. 18. Dehydrate the section in 2 changes of 96% ethyl alcohol for 5 minutes each. 19. Wash the section in 2 changes of xylene for 2 minutes each. 20. Mount the slide for observation. * Citrate Buffer (10mM Citric Acid, 0.05% Tween-20, pH 6.0): Citric acid (anhydrous) ----- 1.92 g; Distilled water ----- 1000 ml Mix to dissolve in 700 ml of distilled water. Adjust pH to 6.0 with 1M NaOH and then add 0.5 ml of Tween-20 and mix well. Adjust the final volume to 1 liter with distilled water. Store this solution at room temperature for 3 months or at +4°C for longer storage.
Stabilizer	20 mg/ml BSA
Preservative	0.05% NaN ₃
Immunogen	Peptide derived from C-terminal sequence of human CD45. Antibody recognizes the epitope between Glu1277 - Val1292.
Cellular localization	Membrane
Positive control	Human tonsil tissue

VENTANA PROTOCOL-INSTRUCTION MANUAL	SHORT APPLICATION PROTOCOL FOR VENTANA BENCHMARK SLIDE STAINING SYSTEM PROCEDURE: U ultraView DAB 1. Deparaffinization 2. Heating (72 degree C) at the medium temperatures. Deparaffinization. 3. Cell conditioning 4. ULTRA conditioner #2 5. Heating glass (95 degree C), incubation 8 min. (Cell conditioner #2; buffer CC2). 6. ULTRA CC2 solution application – 44 min. 7. Antibody incubation temperature 8. Heating glass (36 degree C), incubation 4 min. 9. Titration 10. Hand apply – primary antibody 100 ul. Incubation 32 min. 11. ultraWash. 12. Nuclear stain. 13. Hematoxylin II application – one drop (nuclear stain). Cover and incubate 12 min. 14. After nuclear stain. 15. Bluing reagent application, one drop. After nuclear stain, cover and incubate 4 min.
LEICA BOND MAX PROTOCOL-INSTRUCTION MANUAL	SHORT APPLICATION PROTOCOL FOR LEICA BOND MAX SLIDE STAINING SYSTEM Protocol F: - Visualization system: BOND Refine DS9800 - Epitope retrieval / heating time / temperature: ER1 / 30 min. / 100 degree C - Incubation of primary antibody / temperature: 30 min. / 20 degree C
PRECAUTIONS	1. We strongly recommend to use Primary Antibody Diluent (catalog number please inquire), eventually alternative diluent (containing protease free BSA at the concentrations $\geq 1\text{mg/ml}$) for dilution of concentrated antibodies, otherwise the warranty might be voided. 2. Centrifuge the vial before use. 3. Intended for research use in laboratories. 4. Do not use after expiration date stamped on vial label. 5. Avoid contamination of the reagent. 6. Any discrepancies in the recommended procedures stated in the working protocol may affect the final results. 7. The reagent contains sodium azide (NaN_3) which is highly toxic in higher concentrations. The concentration in the reagent (0.05%) is not considered as hazardous. 8. Disposal of waste material must be conducted in accordance with local regulations. 9. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
Preparation and Storage	Store at +4 degrees C. Do not freeze.

IMAGES



IHC (Immunohistochemistry)

CD45 (leukocyte common antigen, LCA) expression in lymphoid cells of the palatine tonsil (A) and lymph node(B). Formalin fixed, paraffin embedded human tissues(4 um sections) stained with anti - CD45 (AAA14929) monospecific clonal antibody according to related datasheet.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33112650
NCBI GeneID	5788
UniProt Accession #	P08575 ; Q16614 ; Q9H0Y6 ; A8K7W6

NCBI Official Full Name	Receptor-type tyrosine-protein phosphatase C
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, C
NCBI Official Symbol	PTPRC
NCBI Official Synonym Symbols	LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C; CD45 antigen; T200 glycoprotein; T200 leukocyte common antigen; protein tyrosine phosphatase, receptor type, c polypeptide
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Gene Name	PTPRC
UniProt Synonym Gene Names	CD45; L-CA
UniProt Entry Name	PTPRC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/monoclonal/cd-45-antibody-clone-e19-g-immunohistochemistry-elisa/14929>