

kappa light chain Recombinant Antibody | Igkc recombinant antibody

Anti-Mouse antibody kappa light chain [OX-20], Rat IgG1, kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72483	Rat	Mouse	Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot

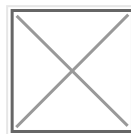
PRODUCT SYNONYMS

kappa light chain; Monoclonal Recombinant Antibody; Anti-Mouse antibody kappa light chain [OX-20]; Rat IgG1; kappa; Mouse antibody kappa light chain; kappa Lc; OX20; MRC OX-20; MRC OX20; Igkc recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG1 kappa
Clone Number	OX-20
Specificity	OX-20 binds specifically to mouse kappa light chain of immunoglobulins. Kappa light chains are found in 95% of mouse Igs with lambda light chains being found in other antibodies. Kappa and lambda chains differ slightly in amino acids residue composition.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for Igkc recombinant antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES

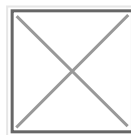


ELISA

ELISA using OX-20 (AAA72483), Ab00102-1.1, Ab00102-2.0 and Ab00104-1.1. Binding curves of the rabbit IgG chimeric version of the Anti-HA antibody OX-20 against Ab00102-1.1 (blue line), Ab00102-2.0 (orange line) and Ab00104-1.1 (grey line) to an ELISA plate coated with Ab00102-1.1, Ab00102-2.0 and Ab00104-1.1 at a concentration of 2.5 µg/ml. A 3-fold serial dilution from 3000 to 0.0169 ng/ml was performed using AAA72483 antibody. For signal detection, a 1:4000 dilution of a HRP-conjugated anti-rabbit IgG antibody was used.

FCM/FACS (Flow Cytometry)

Flow cytometry using the Anti-Mouse kappa light chain antibody OX-20 (AAA72483) against unknown specificity antibody or the rabbit IgG Alexa Fluor 488 antibody.



IF (Immunofluorescence)

Immunofluorescence staining of fixed mouse splenocytes with anti-Mouse antibody kappa light chain antibody OX-20 (AAA72483). Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes on a slide coated with the chimeric rabbit IgG version of OX-20 (AAA72483) at 10 µg/ml for 1 h followed by Alexa Fluor 488 secondary antibody (2 µg/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom: AAA72483, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

WB (Western Blot)

Western blot using anti-Mouse kappa light chain antibody OX-20 (AAA72483) against mouse spleen (A) and rabbit secondary antibody (B) at 0.001 µg/ml.

ADDITIONAL INFORMATION

Related Product Information for Igkc recombinant antibody	OX-20 was generated by hyperimmunizing rats with mouse F(ab')2 generated by enzymatic digest.
References	Mason et al. The rat mixed lymphocyte reaction: roles of a dendritic cell in intestinal lymph and T-cell subsets defined by monoclonal antibodies. Immunology 44:75-87 1981 N/A6456222 Note on publication: Describes how rat anti-mouse antibodies were shown to bind specifically to IgGs and not to IgM by indirect haemagglutination of sheep red blood cells which had been coated with different mouse mAbs specific for sheep red blood cells, and to mouse IgGs and not IgG molecules derived from other species (some cross reaction with rabbit and guinea pig) (Galfre et al. 1979).

NCBI AND UNIPROT INFORMATION

NCBI GI #	125146
NCBI GeneID	16071
UniProt Accession #	P01837
Molecular Weight	11,778 Da
NCBI Official Full Name	Ig kappa chain C region, partial
NCBI Official Synonym Full Names	immunoglobulin kappa constant
NCBI Official Symbol	Igkc
NCBI Official Synonym Symbols	Igk-C
UniProt Protein Name	Ig kappa chain C region
UniProt Entry Name	IGKC_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/kappa-light-chain-recombinant-antibody-clone-ox-20-flow-cytometry-immunoprecipitation-western-blot-elisa/72483>