

Datasheet: MCA49P

BATCH NUMBER 1711

Description:	MOUSE ANTI RAT KAPPA LIGHT CHAIN:HRP
Specificity:	KAPPA LIGHT CHAIN (IgKa PREFERENCE)
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	OX-12
Isotype:	IgG2a
Quantity:	0.5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/500 - 1/1000
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Rat
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	F(ab') ₂ fragment of rat IgG.
External Database Links	<p>UniProt:</p> <p>P01836 Related reagents</p> <p>P01835 Related reagents</p> <p>Entrez Gene:</p> <p>500180 LOC500180 Related reagents</p>
RRID	AB_567002
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Mouse anti Rat Kappa Light Chain antibody, clone OX-12 recognizes rat kappa chains, showing a marked preference for binding to the Igk^a allotype which is present in AGUS, AO, AUG, BN, LEW, LOU, PVG and WAG strains but not in ACI, DA, F344, MSU or SHR rat strains.</p> <p>This product is routinely tested in flow cytometry on rat splenic lymphocytes.</p>
References	<ol style="list-style-type: none"> Hunt, S.V. & Fowler, M.H. (1981) A repopulation assay for B and T lymphocyte stem cells employing radiation chimaeras. Cell Tissue Kinet. 14 (4): 445-64. Bukovský, A. <i>et al.</i> (1984) Association of some cell surface antigens of lymphoid cells and cell surface differentiation antigens with early rat pregnancy. Immunology. 52 (4): 631-40. Balogh, P. <i>et al.</i> (2002) Simultaneous blockade of Fc gamma receptors and indirect labeling of mouse lymphocytes by the selective detection of allotype-restricted epitopes on the kappa chain of rat monoclonal antibodies. Cytometry. 47 (2): 107-10. Lozano, F. <i>et al.</i> (1993) Affinity maturation leads to differential expression of multiple copies of a kappa light-chain transgene. Nature. 363 (6426): 271-3. Gehrs, B.C. <i>et al.</i> (1997) Alterations in the developing immune system of the F344 rat after perinatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin: II. Effects on the pup and the adult. Toxicology. 122 (3): 229-40. Penny, M.J. <i>et al.</i> (1997) Role of T cells in the mediation of Heymann nephritis. ii. Identification of Th1 and cytotoxic cells in glomeruli. Kidney Int. 51 (4): 1059-68. Cisternas, P.A. & Armati, P.J. (2000) Immune system cell markers in the northern brown bandicoot, <i>Isoodon macrourus</i>. Dev Comp Immunol. 24 (8): 771-82. Pabst, R. <i>et al.</i> (2009) TLR2/6 stimulation of the rat lung: effects on lymphocyte subsets, natural killer cells and dendritic cells in different parts of the air-conducting compartments and at different ages. Immunology. 126 (1): 132-9. Pérez-cano, F.J. <i>et al.</i> (2007) Phenotypic and functional characteristics of rat spleen lymphocytes during suckling. Dev Comp Immunol. 31 (12): 1264-77. Mccormack, E. <i>et al.</i> (2010) Lentinan: hematopoietic, immunological, and efficacy studies in a syngeneic model of acute myeloid leukemia. Nutr Cancer. 62 (5): 574-83. Emara, A.M. & Draz, E.I. (2007) Immunotoxicological study of one of the most common over-the-counter pyrethroid insecticide products in Egypt. Inhal Toxicol. 19 (12):

[997-1009.](#)

Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/MCA49P 10094
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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