

Mouse Bu-1a Monoclonal Antibody | anti-Bu-1a antibody

MOUSE ANTI CHICKEN Bu-1a:FITC

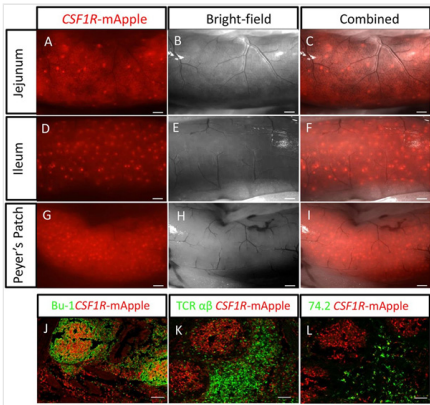
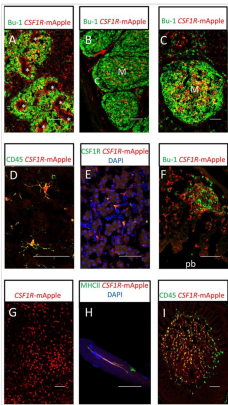
CATALOG # AAA49641	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

Bu-1a; Monoclonal Antibody; MOUSE ANTI CHICKEN Bu-1a:FITC; anti-Bu-1a antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	L22
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	335
Applicable Applications for anti-Bu-1a antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Chicken
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



Application Data

Published customer image: Mouse anti Chicken Bu-1 antibody, clone L22 used for immunofluorescence studies. Image caption: Confocal analysis of MacRed chicken post-hatch mononuclear phagocyte populations. (A) Splenic mononuclear phagocytes (red) and Bu-1+ B-cells (green) from a 16-week-old MacRed chicken. Rings of transgene-expressing cells can clearly be seen surrounding the ellipsoid (asterisk). (B) Bursa of Fabricius from an 8-day-old MacRed chicken: Bu-1+ B cells (green) show arrangement of the B-cell follicles; mononuclear phagocytes (red) are present in the medulla (M) and interfollicular region (red arrow), but not in the cortex (C) of B-cell follicles in the bursa of Fabricius. (C) Caecal tonsil B-cell follicle from a 10-week-old MacRed chicken, showing location of mononuclear phagocytes (red) and Bu-1+ B-cells (green). Transgene-expressing cells concentrated in the medulla region (M) of the B-cell follicle are a dense network of FDC. (D) Microglial cells (red) in the cerebellum of an 8-day-old MacRed chicken showing colocalisation with CD45 staining (green). (E) Kupffer cells (red) showing colocalisation with CSF1R (green) from a 13-week-old MacRed chicken liver. (F) Lung mononuclear phagocytes (red) and Bu-1+ B-cells (green) in the interstitial tissue of the parabronchial wall from a 16-week-old MacRed chicken. The parabronchial lumen (pb) is indicated. (G) Epidermal mononuclear phagocyte cells (red) in epidermal sheet preparation from a 10-week-old MacRed chicken. (H) Breast muscle mononuclear phagocytes (red) from a 16-week-old MacRed chicken co-expressing MHCII (green). (I) Feather pulp mononuclear phagocytes from an 8-day-old MacRed chicken (red) co-stained with CD45 (green). Scale bars: 50 μm. From: Balic A, Garcia-Morales C, Vervelde L, Gilhooley H, Sherman A, Garceau V, Gutowska MW, Burt DW, Kaiser P, Hume DA, Sang HM. Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. Development. 2014 Aug;141(16):3255-65.

Application Data

Published customer image: Mouse anti Chicken Bu-1 antibody, clone L22 used for immunofluorescence studies. Image caption: F distribution of lymphoid aggregates in the MacRed chicken gut. (A-I) External views of different regions of a 1-year-old MacRed chicken showing several scattered lymphoid aggregates in the jejunum (A-C), numerous scattered lymphoid aggregates in the ileum (D-F) and a high concentration of lymphoid aggregates in the ileum Peyer's Patch. Scale bars in A-I: 500 μm. (J-L) Immunofluorescence staining of Peyer's patches showing organisation of CSF1R-mApple-expressing cells (red) in relation to: (J) Bu-1+ B-cells (green), (K) TCR alpha (Vbeta1)+ T-cells (green) and (L) CVI-ChNL-74.2+ macrophages (green). Scale bars in J-L: 100 μm. From: Balic A, Garcia-Morales C, Vervelde L, Gilhooley H, Sherman A, Garceau V, Gutowska MW, Burt DW, Kaiser P, Hume DA, Sang HM. Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. Development. 2014 Aug;141(16):3255-65.

ADDITIONAL INFORMATION

Related Product Information for anti-Bu-1a antibody	Mouse anti Chicken Bu-1a, clone L22 recognises the 'a' allele of the polymorphic cell surface antigen Bu-1, also known as chB6. Bu-1a is a 70kD alloantigen expressed on B cells and a subset of macrophages. Reports suggest that Bu-1 is expressed on B cell precursors at early stages of development (Houssaint et al. 1991). Weak cross-reactivity with Bu-1b may be seen at higher antibody levels. This may be removed by appropriate titration. Mouse anti chicken BU-1a, clone L22 cross reacts with quail Bu-1 but does not appear reactive with either turkey or guinea fowl tissues (Igyarto et al. 2008)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	46048756
NCBI GeneID	396098
NCBI Accession #	NP_990513.1
NCBI GenBank Nucleotide #	NM_205182.1
NCBI Official Full Name	B6.1
NCBI Official Synonym Full Names	B6.1
NCBI Official Symbol	LOC396098
NCBI Official Synonym Symbols	B6.2; Bu-1b

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://www.aaabiotech.com/monoclonal/bu-1a-antibody-clone-l22-flow-cytometry-elisa/49641>