

Product datasheet for **AM08139BT-N**

LOC396098 (Bu1a + Bu1b) Mouse Monoclonal Antibody [Clone ID: AV20]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AV20
Applications:	FC
Recommended Dilution:	Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.2)
Reactivity:	Chicken
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Bursal cells from one-day-old H.B15 (Bu-1a/b) strain chickens. (Ref.1)
Specificity:	This antibody recognizes a monomorphic determinant on the Bu-1 B cell associated alloantigens of both RPL 6(3) (Bu-1a) and 7(2) (Bu-1b) lines of inbred chickens. It also identifies B cells in partially inbred birds. Bu-1 is found on 85-90% of bursal cells, 2-8% of thymocytes, 15-27% of spleen cells, and 2-18% of peripheral blood cells. It is also expressed on subsets of macrophages and monocytes, but not on granulocytes, erythrocytes or thrombocytes. (Ref.1-2) No Cross reactivity is observed with Turkey cells when analyzed by Immunofluorescent staining and Flow Cytometry.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	B6.1
Database Link:	Entrez Gene 396098 Chicken Q90746



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Background:

The Bu1 [chB6] molecule is expressed on chicken B cells throughout most of their development, as well as on some non lymphoid cells. It has long been used as an allotypic marker in important studies of B cell development, though its function is unknown. It has no recognizable similarity to known mammalian molecules and thus represents a unique B cell marker. Its presence in chickens may be related to differences in the properties of B cell development between chickens and mammalian species. The sequences of the different alleles of this gene revealed a higher level of polymorphism than expected. A restriction fragment length polymorphism linked to the CHB6 gene has been used to determine its location on the linkage map of the chicken genome, which will allow the definitive evaluation of reported associations with disease resistance.

Synonyms:

B-Cell Marker