

Hycult biotechnology

## Lactoferrin c, Clone a-bC-lobe, Bovine mAb

<b>Catalog No.</b>	HM4013	<b>Quantity:</b>	100 µg
<b>Description:</b>	<p>Monoclonal antibody a-bC-lobe, anti bovine Lactoferrin (Lf) is highly specific for bovine Lactoferrin. This protein is a member of the transferrin family of metal-binding proteins found in milk and other secretory fluids and also in blood. It shows multifunctional properties of which the bacteriostatic and bactericidal effects are the best known. The molecule is constructed with a N-terminal half molecule (N-lobe) and a C-terminal half molecule (C-lobe), each of which is composed of two domains. The biologically important functions have been found mainly in the N-lobe. The lactoferrin determinants responsible for binding to Ca<sup>2+</sup>-dependent receptor on hepatocytes are present within the C-lobe. The monoclonal antibody a-bC-lobe shows strong reactivities with both native and denatured forms of bovine lactoferrin and C-lobe. The 'WNIPMGL' sequence (467-473 of bovine lactoferrin) is the antigenic determinant or epitopic site of the anti C-lobe antibody a-bC-lobe.</p> <p>The antibody shows weak reactivity with human lactoferrin and korean goat lactoferrin, slight cross reactivity is seen with bovine transferrin, whereas no cross reactivity is seen with human transferrin and chicken ovotransferrin.</p>		
<b>Concentration:</b>	100 µg/ml		
<b>Specificity:</b>	Bovine Lactoferrin c		
<b>Host:</b>	Mouse		
<b>Isotype:</b>	IgG <sub>1</sub>		
<b>Clone:</b>	a-bC-lobe		
<b>Formulation:</b>	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
<b>Applications</b>	<p>The monoclonal antibody a-bC-lobe can be used for Western blotting and as detection in immunoassay.</p> <p>For Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.</p>		
<b>Storage &amp; Stability:</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.		
<b>References:</b>	<ol style="list-style-type: none"><li>1. Shimazaki, K et al; Structural and immunochemical studies on bovine lactoferrin fragments. <i>Adv Exp Med Biol</i> 1998, <i>443</i>: 41</li><li>2. Nam, S et al; Characterization of Korean native goat lactoferrin. <i>Comp Biochem Physiol part B</i> 1999, <i>123</i>: 201</li><li>3. Nam, S et al; Fine structures of epitopic sites in human and bovine lactoferrin recognized by anti-bovine lactoferrin C-lobe monoclonal antibody. <i>Food and Agricultural Immunology</i> 2002, <i>14</i>: 139</li></ol>		



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**Also available:**

HP7001: Polyclonal antibody against Bovine lactoferrin

HP9033: Polyclonal antibody against Human CRISP-3

HP9034: Polyclonal antibody against Human lactoferrin

HP9035: Polyclonal antibody against Human lysozyme

HM4012: Monoclonal antibody against Bovine lactoferrin, clone 5F12.1.2

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