

## Product datasheet for **BM4039**

### CD32A (FCGR2A) Mouse Monoclonal Antibody [Clone ID: 2E1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2E1
Applications:	ELISA, FC, IHC, IP
Recommended Dilution:	<b>Immunohistochemistry on Frozen Sections:</b> 2 µg/ml (1/200). <b>Suggested Positive Control:</b> Human tonsil. Has been described to work in <b>ELISA, Immunoprecipitation</b> and <b>FACS</b> (10 µl stock solution to label 10 <sup>6</sup> cells).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	K562 cells.
Specificity:	This Monoclonal Antibody 2E1 recognizes the three isoforms of the Fc-gamma RII designated as A, B and C. Monocytes carry all forms of Fc-gamma RII, Neutrophils carry Fc-gamma RIIA and Fc-gamma RIIC. Fc-gamma RIIB is expressed by B lymphocytes and mast cells.
Formulation:	PBS, pH 7.2 containing 0.01% Thiomerosal as preservative and 10 mg/ml BSA as stabilizer State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 0.5 ml distilled water (stock solution contains 0.4 mg/ml IgG)
Concentration:	0.4 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Gene Name:	Fc fragment of IgG receptor IIa
Database Link:	<a href="#">Entrez Gene 2212 Human P12318</a>
Background:	CD32 is a receptor for the Fc region of complexed or aggregated immunoglobulins gamma. This is a low affinity receptor. It is Involved in a variety of effector and regulatory functions such as phagocytosis of immune complexes and modulation of antibody production by B cells. Binding to this receptor results in downmodulation of previous state of cell activation triggered via antigen receptors on B cells (BCR), T cells (TCR) or via another Fc receptor.
Synonyms:	Fc-gamma RII-a, Fc-gamma-RIIa, CDw32, FCGR2A, FCG2, FCGR2A1, IGFR2
Note:	Protocol: <b>Protocol with Frozen, ice-cold acetone-fixed sections:</b> The whole procedure is performed at room temperature <ol style="list-style-type: none"><li>1. Wash in PBS</li><li>2. Block endogenous peroxidase</li><li>3. Wash in PBS</li><li>4. Block with 10% normal Goat serum in PBS for 30min. in a humid chamber</li><li>5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber</li><li>6. Wash in PBS</li><li>7. Incubate with secondary antibody (peroxidase-conjugated Goat anti Mouse IgG+IgM (H+L) minimal-cross reaction to Human) for 1h in a humid chamber</li><li>8. Wash in PBS</li><li>9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.</li><li>10. Wash in PBS</li><li>11. Counterstain with Mayer's hemalum.</li></ol>