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# Product datasheet for BM2133

## Complement C5 (C5) (neoepitope) Mouse Monoclonal Antibody [Clone ID: HCC5b.1 (neo)]

### Product data:

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| **Product Type:** | Primary Antibodies |
| **Clone Name:** | HCC5b.1 (neo) |
| **Applications:** | ELISA, IHC, WB |
| **Recommended Dilution:** | **ELISA.**<br>**Immunoblotting (Western blot).**<br>**Cytological material.**<br>**Immunohistochemistry on Frozen Sections** (1/10).<br>***Incubation time:*** 1h at RT. |
| **Reactivity:** | Bovine, Goat, Human, Porcine, Primate |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Activated Human Complement Component C5 |
| **Specificity:** | HCC 5b.1 (neo) allows detection of C5b-9 complexes via activated C5, especially in different forms of glomerulonephritis.<br>Does not react with native C5!<br>**Polypeptide Reacting:** Mr 200 000 polypeptide of SDS denaturated complement component C5 and C5b of Mr 185 000; after C5b activation, an Mr 60 000 cleavage product also reacts (weakly).<br>**Disorders Specifically Detected:** Detection of C5b-9 complexes via activated C5, whereas native C5 reacts with antibody HCC 5.1. |
| **Formulation:** | PBS<br>State: Purified<br>State: Lyophilized purified Ig fraction from Ascites.<br>Stabilizer:<br>0.5% BSA<br><br>Preservative:<br>0.09 % sodium azide |
| **Reconstitution Method:** | Restore with 1 ml distilled water. |

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| **Purification:** | Affinity Chromatography on Protein A |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store lyophilized at 2-8°C for 6 months or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month<br>or (in aliquots) at -20°C long term.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | Homo sapiens complement C5 (C5), transcript variant 1 |
| **Database Link:** | Entrez Gene 727 Human<br>P01031 |
| **Background:** | C5 is synthesised in the liver as a single polypeptide chain. Before secretion the molecule is glycosylated and secreted into plasma as a 190 kDa glycoprotein consisting of a disulphide linked alpha-chain (111 kDa) and beta-chain (75 kDa).<br>C5 precursor is first processed by the removal of 4 basic residues, forming two chains, beta and alpha, linked by a disulfide bond. C5 convertase activates C5 by cleaving the alpha chain, releasing C5a anaphylatoxin and generating C5b (beta chain + alpha' chain). |
| **Synonyms:** | Complement Component 5, CPAMD4 |
| **Note:** | Antibody HCC 5.1, cat.no. BM5030 reacts with native C5. |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus |