

## Product datasheet for **SM1105LE**

### CD42b / GPIbA Mouse Monoclonal Antibody [Clone ID: AK2]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | AK2   |
| Applications:         | ELISA, FC, FN, IP   |
| Recommended Dilution: | <b>ELISA.</b><br><b>Immunoprecipitation.</b><br><b>Functional Assays.</b><br><b>Flow Cytometry:</b> Use 10 µl of 1/50-1/100 diluted antibody to label 100 µl whole blood.   |
| Reactivity:           | Human   |
| Host:                 | Mouse   |
| Isotype:              | IgG1  |
| Clonality:            | Monoclonal  |
| Specificity:          | This antibody recognises the Human CD42b cell surface antigen, also known as platelet glycoprotein GP1B.<br>Clone AK2 has been reported to block the binding of von Willebrand Factor (VWF) to platelets (Ref.1). |
| Formulation:          | PBS, pH 7.2 without preservatives<br>State: Low Endotoxin<br>State: Liquid purified IgG fraction<br>Stabilizer: None  |
| Concentration:        | lot specific  |
| Purification:         | Affinity Chromatography on Protein G  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.  |
| Stability:            | Shelf life: one year from despatch.   |
| Gene Name:            | glycoprotein Ib platelet alpha subunit  |
| Database Link:        | <a href="#">Entrez Gene 2811 Human P07359</a>   |



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- Background:** CD42b is a platelet activation marker involved in the process of coagulation as an aggregating factor. It interacts with extracellular matrix as well as with adhesion molecules. Its expression and activation seems to be regulated by VEGF and PDGF. CD42b is expressed by platelets and megakaryocytes.
- Synonyms:** Platelet glycoprotein Ib alpha chain, Glycoprotein Ibalpha, GP-Ib alpha, GPIb-alpha