**SPECIFICITY**
Thrombin is a coagulation protease produced at sites of vascular injury that activates platelets, endothelial cells, leukocytes and mesenchymal cells. A functional thrombin receptor from human platelets has been cloned and sequenced (1). It is a 66 kDa, single polypeptide chain that belongs to the cell-surface G-protein-coupled receptor family, with seven transmembrane domains and an extracellular N terminus (1, 2). The thrombin cleavage site is located in the N terminus between Arg51 and Ser64. Following cleavage by thrombin, activated receptors undergo desensitization and internalization but a fraction of them are recycled to the cell surface (3, 4).

The WEDE15 monoclonal antibody (mAb) specifically reacts with the thrombin receptor, expressed on megakaryocytic cells, platelets and endothelial cells. The thrombin receptor is also expressed in a subpopulation of peripheral blood lymphocytes (about 30% of T cells and almost all the CD56-positive natural killer cells) but not on B cells, granulocytes and monocytes (5). WEDE15 mAb recognizes specifically the N-terminal peptide of thrombin receptor residues 51-64 (KYEFPWEDEEKNES) (3).

The WeDE15 mAb is a "cleavage-sensitive" antibody since it reacts with both cleaved and uncleaved receptors. In combination with SPAN12 mAb (reacting only with uncleaved receptor thrombin receptor), WEDE15 allows calculation of the proportion of intact receptors at the cell surface (4, 6, 7). The WEDE15 mAb has been studied at the VIth International Workshop on Human Leukocyte Differentiation Antigens in Kobe, Japan (1996) (5).

**REAGENT**
Monoclonal Antibody Anti-Thrombin receptor
PN IM2085 – Purified
– Freeze-dried – 0.2 mg

<table>
<thead>
<tr>
<th>Clone</th>
<th>WEDE15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Species</td>
<td>Mouse</td>
</tr>
<tr>
<td>Immunogen</td>
<td>N-terminal peptide of thrombin receptor residues 51-64 (KYEFPWEDEEKNES)</td>
</tr>
<tr>
<td>Hybridoma Source</td>
<td>SP2 x Balb/c spleen cells</td>
</tr>
<tr>
<td>Purification</td>
<td>Ion exchange or affinity chromatography</td>
</tr>
<tr>
<td>Buffer</td>
<td>1 mg/mL bovine serum albumin in phosphate-buffered saline</td>
</tr>
</tbody>
</table>

**APPLICATION**
Studies of Thrombin receptor positive cells.

**STATEMENT OF WARNINGS**
1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

**STORAGE CONDITIONS AND STABILITY**
This freeze-dried form may be stored at 2–8°C until the expiration date stated on the vial label. No preservative has been added.

**REAGENT PREPARATION**
Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

**PRODUCT AVAILABILITY**
Monoclonal Antibody Anti-Thrombin receptor PN IM2085 – Purified
– Freeze-dried – 0.2 mg

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.

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