Galectin-1/LGALS1 Antibody

**Background:** Galectins are a family of β-galactose binding proteins that are characterized by their affinity for poly-N-acetyllactosamine-enriched glycoconjugates and their carbohydrate-binding site (1,2). Members of the Galectin family have been implicated in a variety of biological functions including cell adhesion (3), growth regulation (4), cytokine production (5), T-cell apoptosis (6), and immune responses (7). Galectin-1 (LGALS1) has been shown to be expressed in a wide range of tissues and cell types. The level and pattern of expression of LGALS1 has been shown to change during development (8). In addition to its apparent role in developmental processes, LGALS1 has been shown to be involved in central immune tolerance and may function in tumorigenesis by modulating the immune response to the tumor (9,10). Increased LGALS1 expression has been demonstrated in several human cancers, suggesting a correlation with metastatic potential (10).

**Specificity/Sensitivity:** Galectin-1/LGALS1 Antibody detects endogenous levels of total galectin-1 protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu33 of human galectin-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

**Storage:** Supplied in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Recommended Antibody Dilutions:**
Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

**Applications**

<table>
<thead>
<tr>
<th>Applications</th>
<th>Species Cross-Reactivity*</th>
<th>Molecular Wt.</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Endogenous</td>
<td>H, M, R, (Mk) 15 kDa</td>
<td>15 kDa</td>
<td>Rabbit **</td>
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</tbody>
</table>

Western blot analysis of extracts from HL-60 and THP-1 cells using Galectin-1/LGALS1 Antibody.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.