**LYZ Monoclonal Antibody**

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<th>Catalog No.</th>
<th>A10972</th>
<th>Category</th>
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<td>Applications</td>
<td>WB, IHC, IF, IP</td>
<td>Observed MW</td>
<td>14kDa</td>
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<td>Cross-reactivity</td>
<td>Human, Mouse, Rat</td>
<td>Calculated MW</td>
<td>16kDa</td>
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**Immunogen Information**

- **Immunogen**: Recombinant protein of human LYZ
- **Gene ID**: 4069
- **Swiss prot**: P61626
- **Synonyms**: LYZ; LYZF1; LZM; lysozyme

**Product information**

- **Source**: Rabbit
- **Isotype**: IgG
- **Purification method**: Affinity purification
- **Storage**: Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Background**

This gene encodes human lysozyme, whose natural substrate is the bacterial cell wall peptidoglycan (cleaving the beta[1-4]glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine). Lysozyme is one of the antimicrobial agents found in human milk, and is also present in spleen, lung, kidney, white blood cells, plasma, saliva, and tears. The protein has antibacterial activity against a number of bacterial species. Missense mutations in this gene have been identified in heritable renal amyloidosis.

**Recommended Dilutions**

- **WB**: 1:5000 - 1:10000
- **IHC**: 1:50 - 1:200
- **IF**: 1:50 - 1:200
- **IP**: 1:20 - 1:50

Western blot analysis of extracts of various cell lines, using LYZ antibody (A10972). Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Immunohistochemistry of paraffin-embedded human stomach using LYZ antibody (A10972) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded mouse kidney using LYZ antibody (A10972) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded human appendix using LYZ antibody (A10972) at dilution of 1:100 (40x lens).
Immunohistochemistry of paraffin-embedded mouse lung using LYZ antibody (A10972) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded rat testis using LYZ antibody (A10972) at dilution of 1:100 (40x lens).

Immunofluorescence analysis of CRC cells using LYZ antibody (A10972).