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# Product datasheet for BM2524P

## beta Endorphin Mouse Monoclonal Antibody [Clone ID: B31.15]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | B31.15 |
| **Applications:** | IF, IHC |
| **Recommended Dilution:** | **Immunofluorescence.**<br>**Immunohistochemistry on Frozen Sections.**<br>**Immunohistochemistry on Paraffin Sections:** Microwave pretreatment is recommended.<br>*Recommended Positive Control:* Human pituitary gland. |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Human beta Endorphin (full length native protein). |
| **Specificity:** | This antibody reacts with beta Endorphin, a 31 amino acid, opioid neurotransmitter found in the neurons of the central and peripheral nervous system. |
| **Formulation:** | PBS<br>State: Purified<br>State: Liquid purified IgG fraction from Tissue Culture Supernatant<br>Preservative: 0.09% Sodium Azide |
| **Concentration:** | lot specific |
| **Purification:** | Affinity Chromatography on Protein A |
| **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. |

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**Background:** Beta-Endorphin is an endogenous opioid peptide neurotransmitter found in the neurons of both the central and peripheral nervous system. Beta-Endorphin is a peptide, 31 amino acids long, resulting from processing of the precursor pro-opiomelanocortin (POMC). Beta-Endorphin is found in neurons of the hypothalamus as well as the pituitary gland. It is an agonist of the opioid receptors, with evidence suggesting that it serves as the endogenous ligand of the μ-opioid receptor, the same receptor to which the chemicals extracted from opium, such as morphine and codeine, have their analgesic and addictive effects. Beta-Endorphin occurs in cells in the anterior pituitary. Beta-Endorphin may be detected in tumors of the pituitary, gastroinestinal and bronchial carcinoids. Absorption with 10-100 μg beta-Endorphin per ml diluted antiserum inactivates the antiserum, while Beta-lipotropin, met-enkephalin and leu-enkephalin do not.

**Synonyms:** Endorfin-beta, Endorphin-beta