

Product datasheet for **BM2524S**

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. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 10-20 mg/ml. <i>Staining technique:</i> Standard ABC technique (DAB+). <i>Pretreatment:</i> Heat retrieval (microwave oven). <i>Incubation Time:</i> overnight at 4 °C. <i>Positive Control:</i> Human pituitary gland. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full length native Human beta-Endorphin protein |
| Specificity: | The antibody <i>B31.15</i> reacts with Human beta Endorphin, an endogenous opiate derived from ACTH gene. ACTH (Corticotropin; human 39 aa) is synthesized by the anterior pituitary gland and stimulates the adrenal cortex; 6 hormones are derived from one ACTH gene: ACTH, lipotropin, alpha-MSH, beta-MSH, endorphin, and one other. |
| Formulation: | PBS, pH~7.4 State: Purified State: Liquid purified IgG fraction from Hybridoma Culture Supernatant (> 95% pure by SDS-PAGE) Preservative: 15 mM 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. Avoid repeated freezing and thawing. |



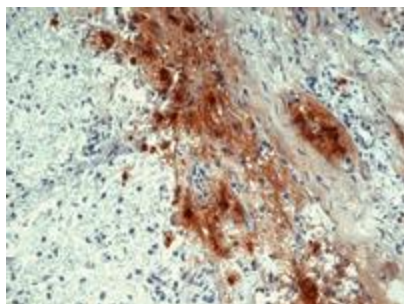
[View online »](#)

Stability: Shelf life: one year from despatch.

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, gastrointestinal and bronchial carcinoids. Absorption with 10-100 μ g beta-Endorphin per ml diluted antiserum inactivates the antiserum, while Beta-lipotropin, met-enkephalin and leu-enkephalin do not.

Synonyms: Endorfin-beta, Endorphin-beta

Product images:



Immunohistochemistry staining of human pituitary gland (frozen sections) with anti-human beta Endorphin (B31.15).