

# Product Datasheet

## ACTH Antibody (CLIP/1407) [Biotin] NBP2-47683B

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-47683B**

ACTH Antibody (CLIP/1407) [Biotin]

| Product Information |   |
|---------------------|---|
| Unit Size           | 0.1 ml  |
| Concentration       | Please see the vial label for concentration. If unlisted please contact technical services. |
| Storage             | Store at 4C in the dark.  |
| Clonality           | Monoclonal  |
| Clone               | CLIP/1407   |
| Preservative        | 0.05% Sodium Azide  |
| Isotype             | IgG1 Kappa  |
| Conjugate           | Biotin  |
| Purity              | Protein A or G purified   |
| Buffer              | PBS   |

| Product Description     |  |
|-------------------------|--|
| Description             | This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.  |
| Host                    | Mouse  |
| Gene ID                 | 5443   |
| Gene Symbol             | POMC   |
| Species                 | Human  |
| Marker                  | Pituitary Marker   |
| Specificity/Sensitivity | ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This monoclonal antibody is specific to CLIP (aa25-39 of ACTH); does not react with Synacthen (aa1-24 of ACTH). POMC (pro-opiomelanocortin or corticotropin-lipotropin) is a 267 amino acid polypeptide hormone precursor that goes through extensive, tissue-specific posttranslational processing by convertases. POMC is cleaved into ten hormone chains named NPP, ACTH, alpha-MSH (Melanocyte Stimulating Hormone), beta-MSH, gamma-MSH, CLIP (corticotropin-like intermediary peptide), Lipotropin-beta, Lipotropin-gamma, beta-endorphin and Met-enkephalin. ACTH is also produced by cells of immune system (T-cells, B-cells, and macrophages) in response to stimuli associated with stress. Anti-ACTH is a useful marker in classification of pituitary tumors and the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs).It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH. |
| Immunogen               | Synthetic peptide corresponding to (aa 162-176) of human ACTH (NGAEDESAAEAFPLEF) (Uniprot: P01189)   |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready       |
| Recommended Dilutions       | Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready       |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined. |





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### **Products Related to NBP2-47683B**

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|            |   |
|------------|---|
| NBP2-29370 | Streptavidin Native Protein                 |
| IC002B     | Mouse IgG1 Isotype Control (11711) [Biotin] |
| 210-TA-005 | TNF-alpha [Unconjugated]                    |
| NBP2-66415 | Rat ACTH ELISA Kit (Colorimetric)           |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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