

# Product Datasheet

## ACTH Antibody (57) - N-terminal **NBP2-32912-0.1mg**

Unit Size: 0.1 mg

Store at 4C.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

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**NBP2-32912-0.1mg**

ACTH Antibody (57) - N-terminal

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	57
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA

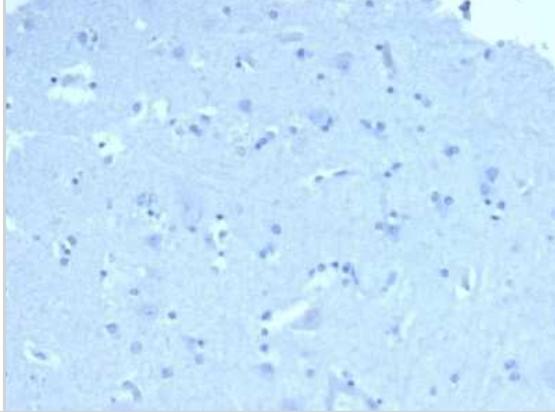
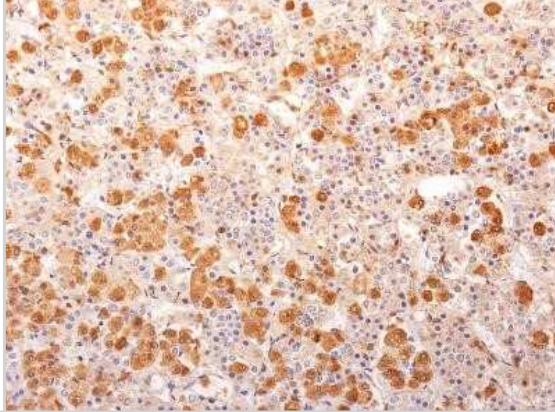
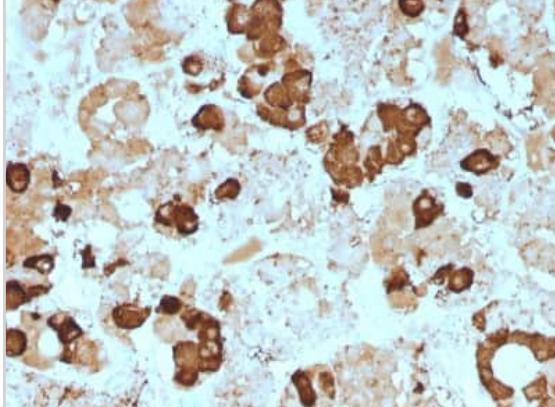
**Product Description**

<b>Description</b>	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34512)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
<b>Host</b>	Mouse
<b>Gene ID</b>	5443
<b>Gene Symbol</b>	POMC
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Expected to show broad species reactivity.
<b>Marker</b>	Pituitary Marker
<b>Specificity/Sensitivity</b>	ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This monoclonal antibody is specific to Synacthen (aa1-24 of ACTH); does not react with CLIP (aa17-39 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.
<b>Immunogen</b>	Recombinant fragment corresponding to human ACTH (N-terminal) conjugated to keyhole limpet hemocyanin. (Uniprot: P01189)

**Product Application Details**

<b>Applications</b>	ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Flow Cytometry 1-2 ug/million cells, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml

<b>Application Notes</b>	<p>ELISA: For coating, order Ab without BSA.          Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.</p>
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<b>Images</b>	<p>Immunohistochemistry-Paraffin: ACTH Antibody (57) - N-terminal [NBP2-32912] - IHC analysis of formalin-fixed, paraffin-embedded human brain. Negative tissue control using ACTH monoclonal antibody (57) at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2: HRP-polymer, 30min. DAB, 5min.</p> 
	<p>Immunohistochemistry-Paraffin: ACTH Antibody (57) - N-terminal [NBP2-32912] - Formalin-fixed, paraffin-embedded human Pituitary Gland stained with ACTH Monoclonal Antibody (57).</p> 
	<p>Immunohistochemistry-Paraffin: ACTH Antibody (57) - N-terminal [NBP2-32912] - Formalin-fixed, paraffin-embedded human pituitary gland stained with ACTH Mouse Monoclonal Antibody (57).</p> 

<b>Publications</b>
Li K, Xiong Z, Zhou M et al. A procedure in mice to obtain intact pituitary-infundibulum-hypothalamus preparations: a method to evaluate the reconstruction of hypothalamohypophyseal system Pituitary 2023-03-02 [PMID: 36862266]



## Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

## Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

## Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

## General Contact Information

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)  
Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)  
General: [novus@novusbio.com](mailto:novus@novusbio.com)

## Products Related to NBP2-32912-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
210-TA-005	TNF-alpha [Unconjugated]

## 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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