ACTH (Adrenocorticotrophic Hormone) (N-Terminal) (Pituitary Marker) Antibody

Mouse Monoclonal Antibody [Clone 57]

Catalog No	Format	Size
5443-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5443-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5443-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

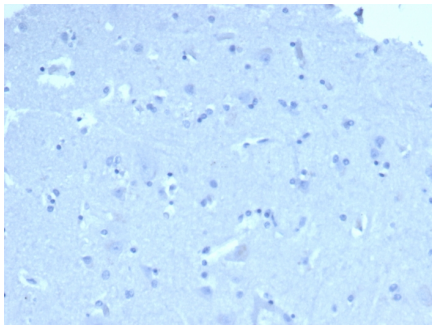
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

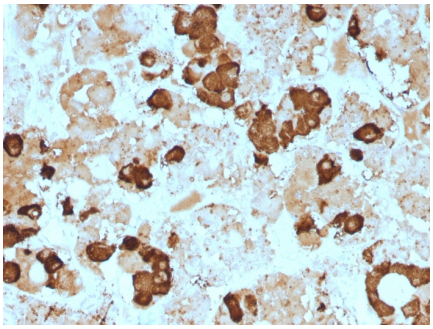
Clone	57
Gene Name	POMC
Immunogen	Recombinant fragment corresponding to human ACTH (N-terminal) conjugated to keyhole limpet haemocyanin.
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	ACTH is ~5kDa|and the POMC precursor is ~30kDa. The molecular weight of POMC depends upon isoform variation and post-translational modifications.
Cellular Localization	Secreted
Species Reactivity	Human, Mouse, Rat
Positive Control	Normal pituitary gland or pituitary tumor.

**Optimal dilution for a specific application should be determined.*

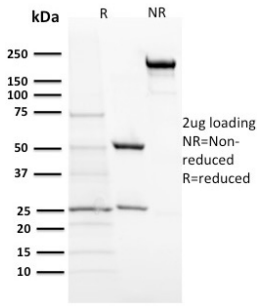
Product Images for ACTH (Adrenocorticotrophic Hormone) (N-Terminal) (Pituitary Marker) Antibody



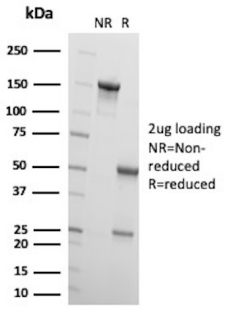
IHC analysis of formalin-fixed, paraffin-embedded human brain. Negative tissue control using ACTH MAb (57) at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



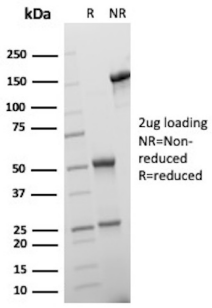
Formalin-fixed, paraffin-embedded human pituitary gland stained with ACTH Mouse Monoclonal Antibody (57).



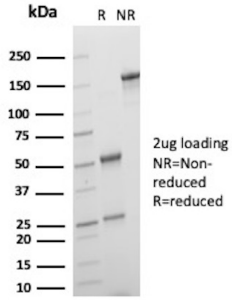
SDS-PAGE Analysis of Purified ACTH Mouse Monoclonal Antibody (57). Confirmation of Integrity and Purity of Antibody.



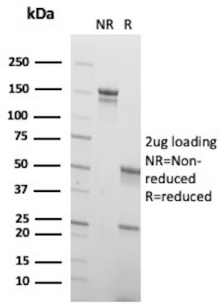
SDS-PAGE Analysis of Purified Pro-opiomelanocortin / POMC Mouse Monoclonal Antibody (57). Confirmation of Purity and Integrity of Antibody.



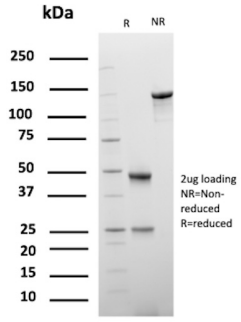
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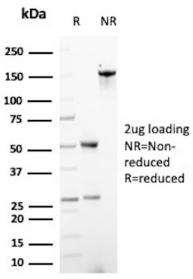
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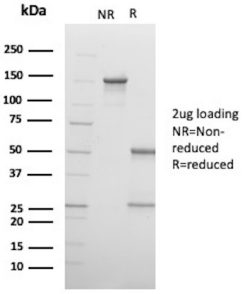
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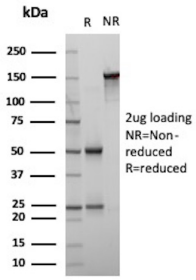
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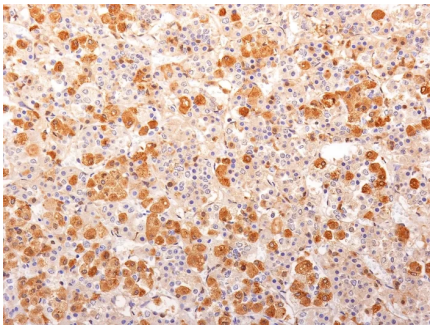
SDS-PAGE Analysis of Purified Pro-opiomelanocortin / POMC Mouse Monoclonal Antibody (57). Confirmation of Purity and Integrity of Antibody.



SDS-PAGE Analysis of Purified Pro-opiomelanocortin / POMC Mouse Monoclonal Antibody (57). Confirmation of Purity and Integrity of Antibody.



SDS-PAGE Analysis of Purified Pro-opiomelanocortin / POMC Mouse Monoclonal Antibody (57). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human pituitary gland stained with ACTH Mouse Monoclonal Antibody (57).

Specificity & Comments

ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This MAb 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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cytokine Signaling, Immunology, Infectious Disease, Neuroscience, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.