

POMC (D3R1U) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-F, IF-IC	M	Endogenous	10, 12, 28, 32	Rabbit IgG	#P01189	5443

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:200
1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

POMC (D3R1U) Rabbit mAb recognizes endogenous levels of total POMC protein.

Species predicted to react based on 100% sequence homology

Human, Rat, Bovine

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro69 of human POMC protein.

Background

Pro-opiomelanocortin (POMC) is a precursor protein expressed in the pituitary and the brain where it is processed into several peptide hormones and neuropeptides. Among these peptides are ACTH, α- and β-MSH, β- and γ-LPH, CLIP, β-endorphin, and N-POMC (1). POMC is involved in hypothalamic circuits regulating feeding behavior and POMC-producing neurons promote satiety (2). POMC neurons are also the target of leptin and insulin for the promotion of the browning of white fat (3).

Background References

1. Chretien, M. and Mbikay, M. (2016) *J Mol Endocrinol*, T49-62. doi: 10.1530/JME-15-0261.
2. Yang, Y. et al. (2011) *Cell* 146, 992-1003.
3. Dodd, G.T. et al. (2015) *Cell* 160, 88-104.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

M: Mouse

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