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Product Information

Anti-POU1F1/PIT1 (C-terminal)

produced in rabbit, affinity isolated antibody

Product Number SAB4200001

Product Description

Anti-POU1F1/PIT1 (C-terminal) is produced in rabbit using as the immunogen a synthetic peptide corresponding to a sequence at the C-terminal of human POU1F1/PIT1 (Gene ID: 5449) conjugated to KLH. The corresponding sequence is identical in rat and mouse. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-POU1F1/PIT1 (C-terminal) recognizes human POU1F1/PIT1. The antibody may be used in various immunochemical techniques including immunoblotting (~32 kDa) and immunoprecipitation. Detection of the POU1F1/PIT1 band by immunoblotting is specifically inhibited with the immunizing peptide.

POU1F1/PIT1 is a pituitary-specific transcription factor responsible for pituitary development and hormone expression in mammals and is a member of the POU family of transcription factors that regulates mammalian development. It is required for the differentiation and proliferation of the anterior pituitary somatotrophs, lactotrophs, and thyrotrophs cell lineages.^{1,2} Therefore, abnormalities of the *Pit-1* gene results in the syndrome of combined pituitary hormone deficiency (CPHD), a disease characterized by the lack of prolactin, growth hormone, and thyroid stimulating hormone β .^{3,4} POU1F1/PIT1 regulates its target gene expression by binding to response elements on their promoter regions and recruitment of co-regulatory proteins that alter histone acetylation and modify chromatin structures.⁵

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2–8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

Product Profile

<u>Immunoblotting</u>: a working antibody concentration of $1-2 \mu g/mL$ is recommended using GH3 cell lysates.

<u>Immunoprecipitation</u>: a working antibody amount of 2.5-5 μ g is recommended using GH3 cell lysates.

<u>Note</u>: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

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