A27875

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Pit1/POU1F1 Rabbit mAb

Catalog No.: A27875 Recombinant

Basic Information

Observed MW
33kDa

Calculated MW
33kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
WB,IHC-P,IF/ICC,IP,ELISA

Cross-Reactivity
Mouse,Rat

Background

This gene encodes a member of the POU family of transcription factors that regulate mammalian development. The protein regulates expression of several genes involved in pituitary development and hormone expression. Mutations in this genes result in combined pituitary hormone deficiency. Multiple transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB	1:4000 - 1:16000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
IF/ICC	1:200 - 1:800
IHC-P	1:1000 - 1:4000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID
5449

Swiss Prot
P28069

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
PIT1; CPHD1; GHF-1; Pit-1; POU1F1a

Product Information

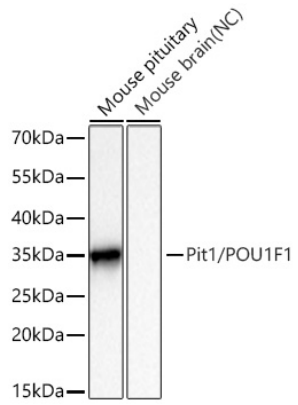
Source
Rabbit

Isotype
IgG

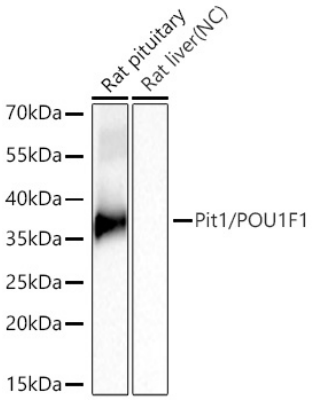
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using Pit1/POU1F1 Rabbit mAb (A27875) at 1:8000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Mouse brain
Exposure time: 10s.



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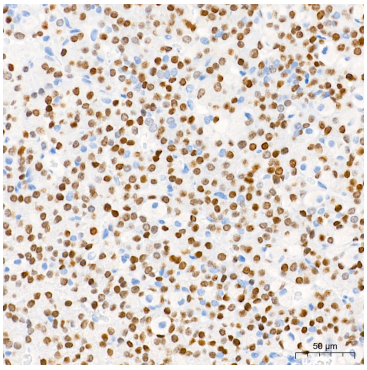
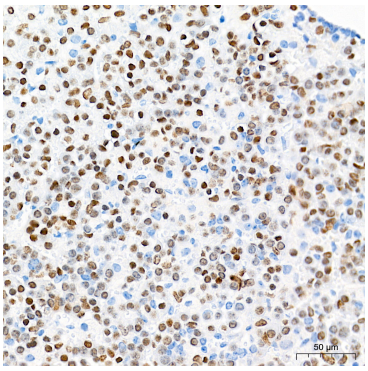
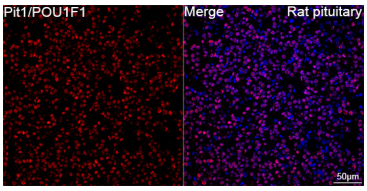
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Rat liver
Exposure time: 60s.



Immunohistochemistry analysis of paraffin-embedded Rat pituitary gland tissue using Pit1/POU1F1 Rabbit mAb (A27875) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

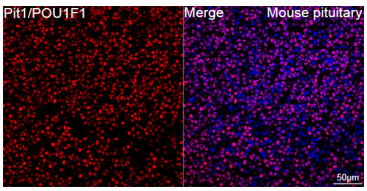


Immunohistochemistry analysis of paraffin-embedded Mouse pituitary gland tissue using Pit1/POU1F1 Rabbit mAb (A27875) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

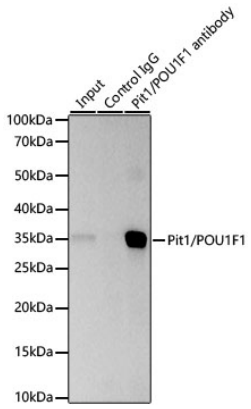


Confocal imaging of paraffin-embedded Rat pituitary tissue using Pit1/POU1F1 Rabbit mAb (A27875, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Validation Data



Confocal imaging of paraffin-embedded Mouse pituitary tissue using Pit1/POU1F1 Rabbit mAb (A27875, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunoprecipitation of Pit1/POU1F1 from 300 µg extracts of Mouse pituitary tissue was performed using 2 µg of Pit1/POU1F1 Rabbit mAb (A27875). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Pit1/POU1F1 Rabbit mAb (A27875) at a dilution of 1:9000.