

Rabbit Anti-PIT1/POU1F1 Polyclonal: RC0277, RC0277RTU7

Intended Use: For Research Use Only

Description: Belongs to the POU transcription factor family. Class-1 subfamily. Transcription factor involved in the specification of the lactotrope, somatotrope, and thyrotrope phenotypes in the developing anterior pituitary. Activates growth hormone and prolactin genes. Specifically binds to the consensus sequence 5'-TAAAT-3'. Defects in POU1F1 are the cause of pituitary hormone deficiency combined type 1 (CPHD1). CPHD is characterized by impaired production of growth hormone (GH) and one or more of the other five anterior pituitary hormones.

Specifications:

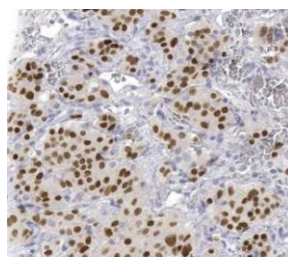
Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: Recombinant protein to human PIT1
 Localization: Nucleus
 Formulation: Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
PIT1/POU1F1 Concentrated	RC0277	1 ml
PIT1/POU1F1 Prediluted	RC0277RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Liver, pituitary adenomas
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human pituitary gland stained with anti-PIT1 using DAB

References:

1. MicroRNAs Regulate Pituitary Development, and MicroRNA 26b Specifically Targets Lymphoid Enhancer Factor 1 (Lef-1), Which Modulates Pituitary Transcription Factor 1 (Pit-1) Expression. Zhang Z, et al. J Biol Chem 285:34718-28, 2010.
2. Inactivating Pit-1 mutations alter subnuclear dynamics suggesting a protein misfolding and nuclear stress response. Sharp ZD, et al. J Cell Biochem 92:664-78, 2004.
3. Mancini MG, et al. Subnuclear partitioning and functional regulation of the Pit-1 transcription factor. J Cell Biochem 72:322-38, 1999.

Doc. 100-RC0277
Rev. A