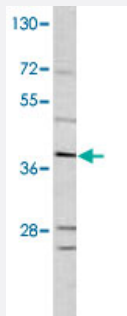


NEUROD1 polyclonal antibody

Catalog # PAB3857

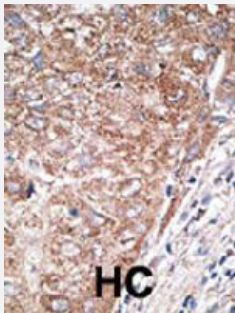
Size 400 uL

Applications



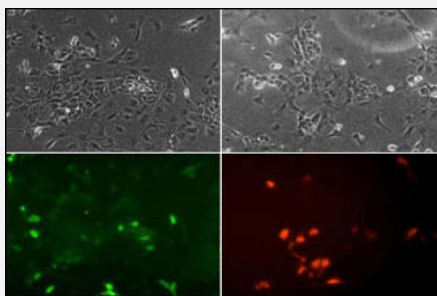
Western Blot (Cell lysate)

Western blot analysis of HepG2 cell lysate (35 ug/lane) with NEUROD1 polyclonal antibody (Cat # PAB3857).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with NEUROD1 polyclonal antibody (Cat # PAB3857), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma



Immunofluorescence

ES cells were transiently transfected with flag-tagged mouse NEUROD1. Fixed 24h post transfection. Stained for flag tag (red) to check that some cells express protein. Most protein was in nucleus but some was cytoplasmic. Stained with NEUROD1 polyclonal antibody (Cat # PAB3857) at 1:100. NEUROD1 polyclonal antibody (Cat # PAB3857) showed strong and clear staining with similar pattern to the flag staining. (Supplied by Sally Lowell, Edinburgh University)

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NEUROD1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human NEUROD1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Immunofluorescence (1:100) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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(Supplied by Sally Lowell, Edinburgh University)

Gene Info — NEUROD1

Entrez GeneID	4760
Protein Accession#	NP_002491;Q13562
Gene Name	NEUROD1
Gene Alias	BETA2, BHF-1, NEUROD, bHLHa3
Gene Description	neurogenic differentiation 1
Omim ID	125853 601724
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the NeuroD family of basic helix-loop-helix (bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus. [provided by RefSeq]
Other Designations	basic helix-loop-helix transcription factor beta-cell E-box transactivator 2 neurogenic differentiation factor 1 neurogenic helix-loop-helix protein NEUROD

Publication Reference

- [NeuroD1/E47 regulates the E-box element of a novel zinc finger transcription factor, IA-1, in developing nervous system.](#)
 Breslin MB, Zhu M, Lan MS.
 The Journal of Biological Chemistry 2003 Oct; 278(40):38991.
 Application: Func, WB, Recombinant protein
- [The Ala45Thr polymorphism of BETA2/NeuroD1 gene and susceptibility to type 2 diabetes mellitus in a Polish population.](#)
 Malecki MT, Cyganek K, Klupa T, Sieradzki J.
 Acta Diabetologica 2003 Jun; 40(2):109.
- [NEUROD polymorphism Ala45Thr is associated with Type 1 diabetes mellitus in Czech children.](#)
 Cinek O, Drevinek P, Sumnik Z, Bendlova B, Sedlakova P, Kolouskova S, Snajderova M, Vavrinec J.
 Diabetes Research and Clinical Practice 2003 Apr; 60(1):49.

Pathway

- [Maturity onset diabetes of the young](#)

Disease

- [Albuminuria](#)
- [Cardiovascular Diseases](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Infant](#)
- [Mental Disorders](#)
- [Obesity](#)