

Product datasheet for **CF500346**

Neurogenin3 (NEUROG3) Mouse Monoclonal Antibody [Clone ID: OTI3B5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3B5
Applications:	IF, IHC, IP, WB
Recommended Dilution:	WB 1:2000, IHC 1:50 - 1:150, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full-length protein expressed in 293T cell transfected with human NEUROG3 expression vector
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.077 kDa
Gene Name:	neurogenin 3
Database Link:	NP_066279 Entrez Gene 50674 Human Q9Y4Z2



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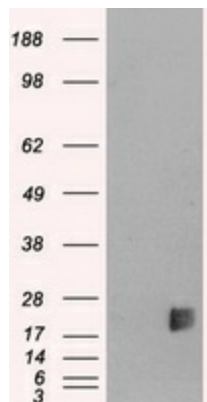
Background: Neurogenin-3 (NEUROG3) is expressed in endocrine progenitor cells and is required for endocrine cell development in the pancreas and intestine (Wang et al., 2006 [PubMed 16855267]). It belongs to a family of basic helix-loop-helix transcription factors involved in the determination of neural precursor cells in the neuroectoderm

Synonyms: Atoh5; bHLHa7; Math4B; NGN-3; ngn3

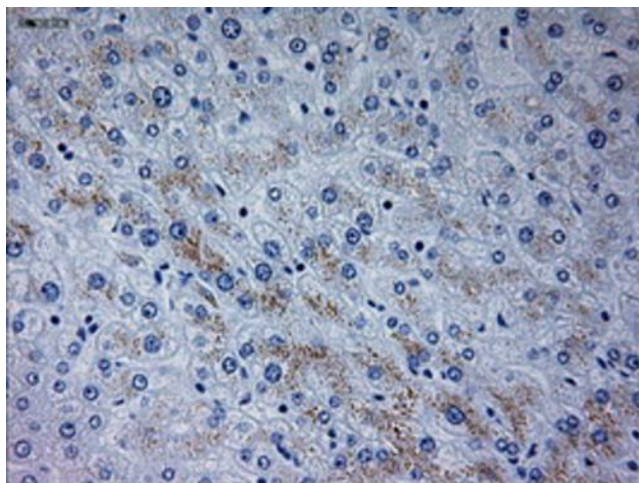
Protein Families: ES Cell Differentiation/IPS

Protein Pathways: Maturity onset diabetes of the young

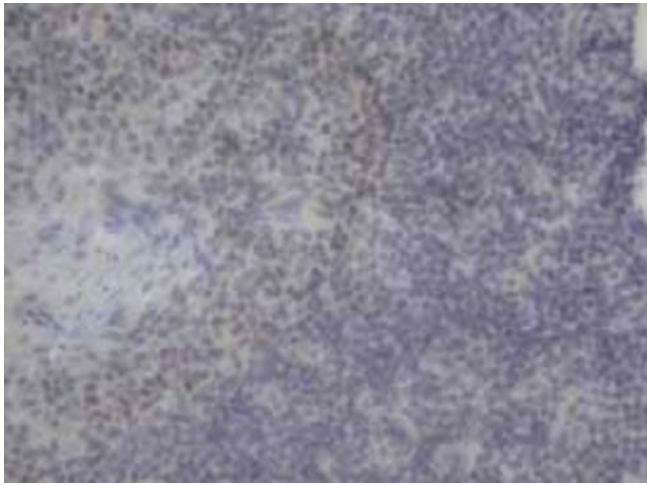
Product images:



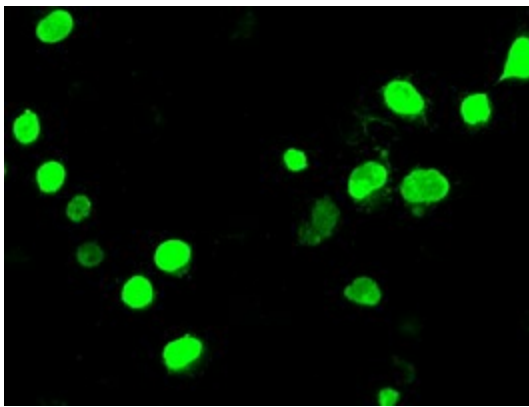
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NEUROG3 (Cat# [RC224767], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NEUROG3(Cat# [TA500346]). Positive lysates [LY402827] (100ug) and [LC402827] (20ug) can be purchased separately from OriGene.



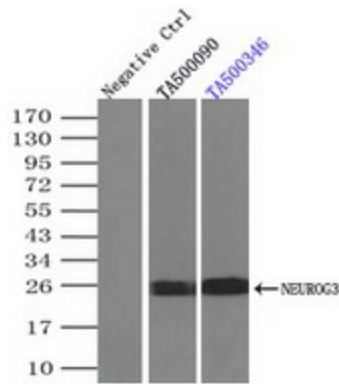
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-NEUROG3 mouse monoclonal antibody ([TA500346]) at 1:150 dilution.



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-NEUROG3 mouse monoclonal antibody (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min).



Anti-NEUROG3 mouse monoclonal antibody (NEUROG3) immunofluorescent staining of HeLa cells transiently transfected by pCMV6-ENTRY NEUROG3 ([RC224767]).



Immunoprecipitation of NEUROG3 by using TrueMab monoclonal anti-NEUROG3 antibody (Negative control: IP without adding anti-NEUROG3 antibody). For each experiment, 500ul of DDK tagged NEUROG3 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-NEUROG3 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.