Datasheet for ABIN967560

anti-ASCL1 antibody

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Overview

Quantity:	0.1 mg
Target:	ASCL1
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ASCL1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Rat MASH1 full length recombinant protein
Clone:	24B72D11-1
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ASCL1
Alternative Name:	MASH1 (ASCL1 Products)
Background:	MASH1 and MASH2 (Mammalian achaete-schute Homolog 1 and 2) are basic helixloop-helix transcription factors which are mammalian homologs of the achaete-schute gene family that is required for neuronal development in Drosophila. The bHLH motif is present in many types of transcription factors including E2-2, E47, MyoD and others. MASH1 has been shown to heterodimerize with other bHLH containing transcription factors. MASH1-E12 heteromers bind to and promote transcriptional activation of muscle creatine kinase, a known target for MyoD activation. However, MASH1 appears to play its primary role during early development of the autonomic nervous system. In committed neuronal precursor cells, early expression of MASH1 activates a subset of neuron-specific genes to promote differentiation. Thus null mutations in the MASH1 gene suggest that MASH1 is a valuable marker for investigation of neural development in mammals. MASH1 is observed as an ~34 kDa protein by SDS-PAGE.
Molecular Weight:	34 kDa
Pathways:	Dopaminergic Neurogenesis

Application Details

Application Notes:	The 24B72D11.1 antibody is recommended for western blot analysis (0.5-2.0 µg/ml). Rat embryonic brain can be used as a positive control. Neuro2A mouse neuroblastoma cells (ATCC CCL-131) may also be used as a positive control for this application. The 24B72D11.1 antibody is reported in the literature to work well for immunohistochemistry.
Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:

Wang, Long, Flandin, Pla, Waclaw, Campbell, Rubenstein: "Loss of Gsx1 and Gsx2 function rescues distinct phenotypes in Dlx1/2 mutants." in: **The Journal of comparative neurology**, Vol. 521, Issue 7, pp. 1561-84, (2013) (PubMed).

Krolewski, Packard, Schwob: "Global expression profiling of globose basal cells and neurogenic progression within the olfactory epithelium." in: **The Journal of comparative neurology**, Vol. 521, Issue 4, pp. 833-59, (2013) (PubMed).

Sawamoto, Hirota, Alfaro-Cervello, Soriano-Navarro, He, Hayakawa-Yano, Yamada, Hikishima, Tabata, Iwanami, Nakajima, Toyama, Itoh, Alvarez-Buylla, Garcia-Verdugo, Okano: "Cellular composition and organization of the subventricular zone and rostral migratory stream in the adult and neonatal common marmoset brain." in: **The Journal of comparative neurology**, Vol. 519, Issue 4, pp. 690-713, (2011) (PubMed).

Guo, Packard, Krolewski, Harris, Manglapus, Schwob: "Expression of pax6 and sox2 in adult olfactory epithelium." in: **The Journal of comparative neurology**, Vol. 518, Issue 21, pp. 4395-418, (2011) (PubMed).

Ivaniutsin, Chen, Mason, Price, Pratt: "Adenomatous polyposis coli is required for early events in the normal growth and differentiation of the developing cerebral cortex." in: **Neural development**, Vol. 4, Issue 1, pp. 3, (2009) (PubMed).

There are more publications referencing this product on: Product page

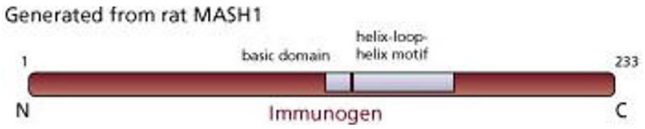
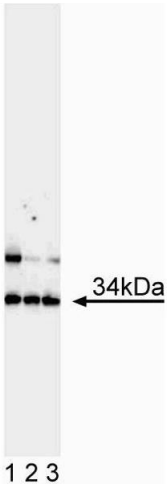
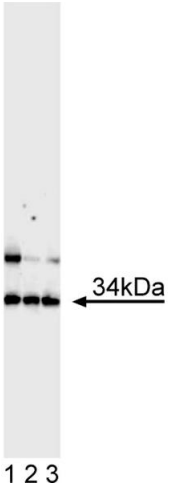


Image 1.



Western Blotting

Image 2. Western blot analysis of MASH1. Lysate from rat embryonic brain was probed with anti-MASH1 (clone 24B72D11.1, ABIN967560) at concentrations of 2.0 (lane 1), 1.0 (lane 2), and 0.5 µg/ml (lane 3). MASH1 is identified as a band of ~34 kDa.



Western Blotting

Image 3.