

Product datasheet for **TA502671AM**

HAND1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1G10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G10
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human HAND1 (NP_004812) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.4 kDa
Gene Name:	heart and neural crest derivatives expressed 1
Database Link:	NP_004812 Entrez Gene 15110 Mouse Entrez Gene 59112 Rat Entrez Gene 9421 Human O96004
Background:	The protein encoded by this gene belongs to the basic helix-loop-helix family of transcription factors. This gene product is one of two closely related family members, the HAND proteins, which are asymmetrically expressed in the developing ventricular chambers and play an essential role in cardiac morphogenesis. Working in a complementary fashion, they function in the formation of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. In addition, it has been suggested that this transcription factor may be required for early trophoblast differentiation. [provided by RefSeq]

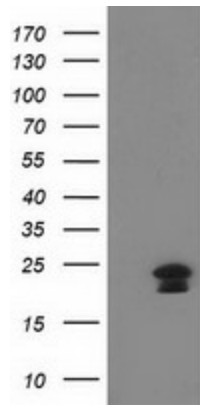


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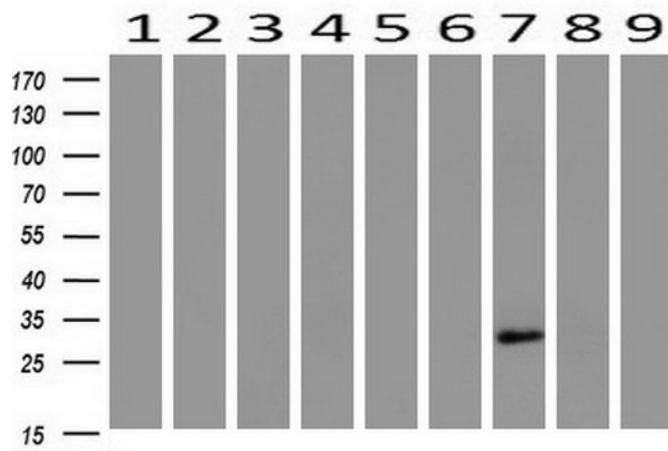
Synonyms: bHLHa27; eHand; Hxt; Thing1

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

Product images:



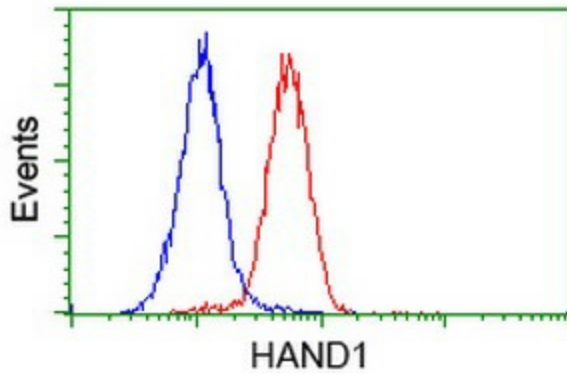
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HAND1 (Cat# [RC200513], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HAND1(Cat# [TA502671]). Positive lysates [LY417727] (100ug) and [LC417727] (20ug) can be purchased separately from OriGene.



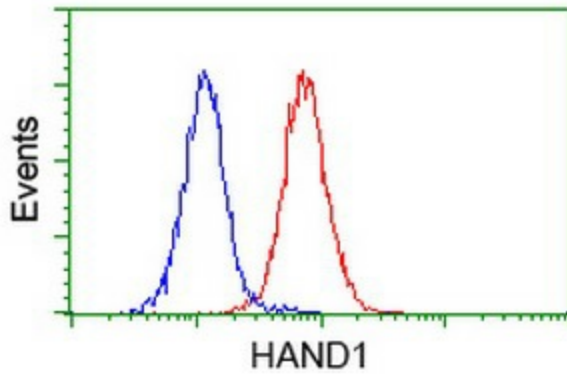
Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-HAND1 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon).



Anti-HAND1 mouse monoclonal antibody ([TA502671]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HAND1 ([RC200513]).



Flow cytometric Analysis of HeLa cells, using anti-HAND1 antibody ([TA502671]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-HAND1 antibody ([TA502671]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).