

## Product datasheet for **AM10222PU-N**

### HES1 Mouse Monoclonal Antibody [Clone ID: 7C2g2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	7C2g2
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA:</b> 1/20000-1/100000. <b>Western Blot:</b> 1/2000-1/10000. <b>Immunohistochemistry.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide derived from C terminal part of HES-1 protein
Specificity:	Reacts with Human 30kDa HES-1 protein. May cross react with Mouse and Rat.
Formulation:	0.1M Tris, 0.1M Glycine and 2% Sucrose State: Purified State: Lyophilized purified powder Preservative: None
Reconstitution Method:	Restore in distilled water.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store the antibody at -20°C. Store reconstituted antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	hes family bHLH transcription factor 1
Database Link:	<a href="#">Entrez Gene 3280 Human Q14469</a>



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**Background:**

HES1 is a nuclear protein belonging to the basic helix-loop-helix family of transcription factors with a basic helix-loop-helix (bHLH) domain and an Orange domain. The basic domain of HES1 contains a helix interrupting protein that binds to the N-box rather than the canonical E-box. An immediate early response gene to growth factor, HES1 is reported as having a dual function of both transcriptional activator and silencer of acid alpha-glucosidase (GAA), thus contributing to the subtle tissue-specific control of housekeeping genes such as GAA. HES1 is a transcriptional repressor of genes which require a bHLH protein for their transcription and also the formation of a complex with a corepressor protein (Groucho) such as TLE2. HES1 may act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1.

**Synonyms:**

HES-1, HL, HRY, Hairy-like, HHL, Hairy homolog