

HES1

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	Rat monoclonal
CLONE NAME:	HS395A
PROTEIN:	Transcription factor HES-1 - Hairy and Enhancer of split-1
PROTEIN WEB:	https://www.uniprot.org/uniprot/P35428
ANTIGEN USED:	HIS-mHES1 (aa93-aa282 fragment)
FUSION PARTNER:	myeloma p3-NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG2b
SPECIES REACTIVITY:	Mouse and human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

DESCRIPTION

Transcriptional repressor of genes that require a bHLH protein for their transcription. May act as a negative regulator of myogenesis by inhibiting the functions of MYOD1 and ASH1 (By similarity). Binds DNA on N-box motifs: 5'-CACNAG-3' with high affinity and on E-box motifs: 5'-CANNTG-3' with low affinity. May play a role in a functional FA core complex response to DNA cross-link damage, being required for the stability and nuclear localization of FA core complex proteins, as well as for FANCD2 monoubiquitination in response to DNA damage.

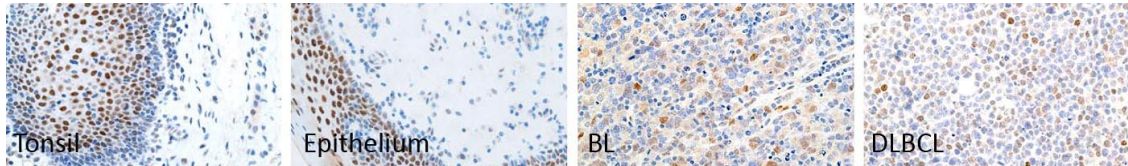
REFERENCES

Maraver A, Fernandez-Marcos PJ, Cash TP, Mendez-Pertuz M, Dueñas M, Maietta P, Martinelli P, Muñoz-Martin M, Martínez-Fernández M, Cañamero M, Roncador G, Martinez-Torrecuadrada JL, Grivas D, de la Pompa JL, Valencia A, Paramio JM, Real FX, Serrano M. NOTCH pathway inactivation promotes bladder cancer progression. J Clin Invest. 2015 Feb;125(2):824-30.

APPLICATIONS

Monoclonal Antibodies Catalogue

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopspins									
Paraffin tissue									
Recommended	HS395 A	1:10	supernatant	20min R2	Bond Max	Tonsil		nuclear	mouse
Immunofluorescence									



HS395A mAb can be used to detect HES1 protein in human paraffin tissues

TISSUE SAMPLE human tonsil, epithelium, and lymphomas (DLBCL, Burkitt and MCL)