

BCL6

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	mouse anti human
CLONE NAME:	GI191E
PROTEIN:	human full length BCL6
PROTEIN WEB:	http://www.hprd.org/summary?hprd_id=00180&isoform_id=00180_3&isoform_name=Isoform_1
ANTIGEN USED:	pcDNA3-BCL6
FUSION PARTNER:	NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG1
SPECIES REACTIVITY:	human and mouse
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze
APP RECOMMENDED:	WB, IHC-frozen, IHC-paraffin
APP NO TESTED:	IP, IF, Flow Cytometry

DESCRIPTION

BCL-6 is a transcriptional regulator gene which codes for a 706-amino-acid nuclear zinc finger protein. Antibodies to this protein stain the germinal centre cells in lymphoid follicles, the follicular cells and interfollicular cells in Follicular Lymphoma, Diffuse Large B-Cell Lymphomas, and Burkitt's lymphoma, and the majority of the Reed-Sternberg cells in Nodular Lymphocyte Predominant Hodgkin's Disease. In contrast, anti-BCL-6 rarely stains Mantle Cell Lymphoma and MALT Lymphoma. BCL-6 expression is seen in approximately 45% of CD30+ Anaplastic Large Cell Lymphoma but is consistently absent in other peripheral T-cell lymphomas.

PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

García JF, García JF, Maestre L, Lucas E, Sánchez-Verde L, Romero-Chala S, Piris MA, Roncador G. Genetic Immunization: a New Monoclonal Antibody for the Detection of BCL-6 Protein in Paraffin Sections. J Histochem Cytochem. 2006 54(1):31-8.

<http://www.ncbi.nlm.nih.gov/pubmed/16046671>

REFERENCES

Guggisberg K and Jordan R. Mantle cell lymphoma of the oral cavity: case series and comprehensive review of the literature. Oral and maxillofacial pathology. 2010 109 (1): 98-104.

Kanellis G, Roncador G, Arribas A, Mollejo M, Montes-Moreno S, Maestre L, Campos-Martin Y, R?os Gonzalez JR, Martinez-Torrecuadrada JL, Sanchez-Verde L, Pajares R, Cigudosa JC, Martin MC and Piris MA. Identification of MNDA as a new marker for nodal marginal zone lymphoma. Leukemia 2009 23, 1847–1857.

Maestre L, Tooze R, Cañamero M, Montes-Moreno S, Ramos R, Doody G, Boll M, Barrans S, Baena S, Piris MA and Roncador G. Expression pattern of XBP1(S) in human B-cell lymphomas. Haematologica. 2009 March; 94(3): 419–422.

Montes-Moreno S, Roncador G, Maestre L, Martínez N, Sánchez-Verde L, Camacho FI, Cannata J, Martínez-Torrecuadrada JL, Shen Y, Chan W and Piris MA. Gcet1 (centerin), a highly restricted marker for a subset of germinal center-derived lymphomas. Blood. 2008 111: 351-358.

Garcia JF, Roncador G, Garcia JF, Sanz AI, Maestre L, Lucas E, Montes-Moreno S, Fernandez Victoria R, Martinez-Torrecuadrada JL, Marafioti T, Mason DY, Piris MA. PRDM1/BLIMP-1 expression in multiple B and T-cell lymphoma. Haematologica. 2006. Apr; 91(4):46.

García JF, García JF, Maestre L, Lucas E, Sánchez-Verde L, Romero-Chala S, Piris MA, Roncador G. Genetic Immunization: a New Monoclonal Antibody for the Detection of BCL-6 Protein in Paraffin Sections. J Histochem Cytochem. 2006 54(1):31-8.

APPLICATIONS

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									

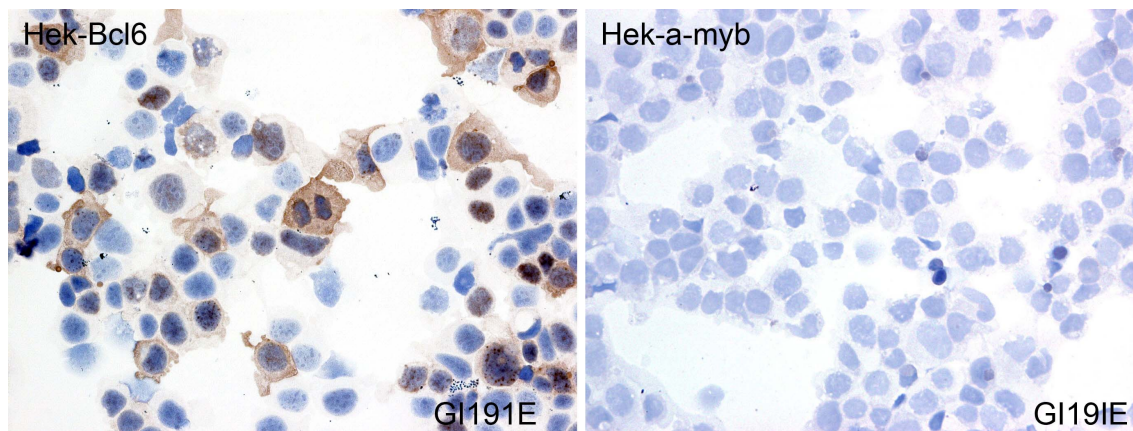
Monoclonal Antibodies Catalogue

Recommended	GI191 E	1:100	supernatant	None	goat anti mouse DAKO	Tonsil		nuclear	
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Paraffin tissue

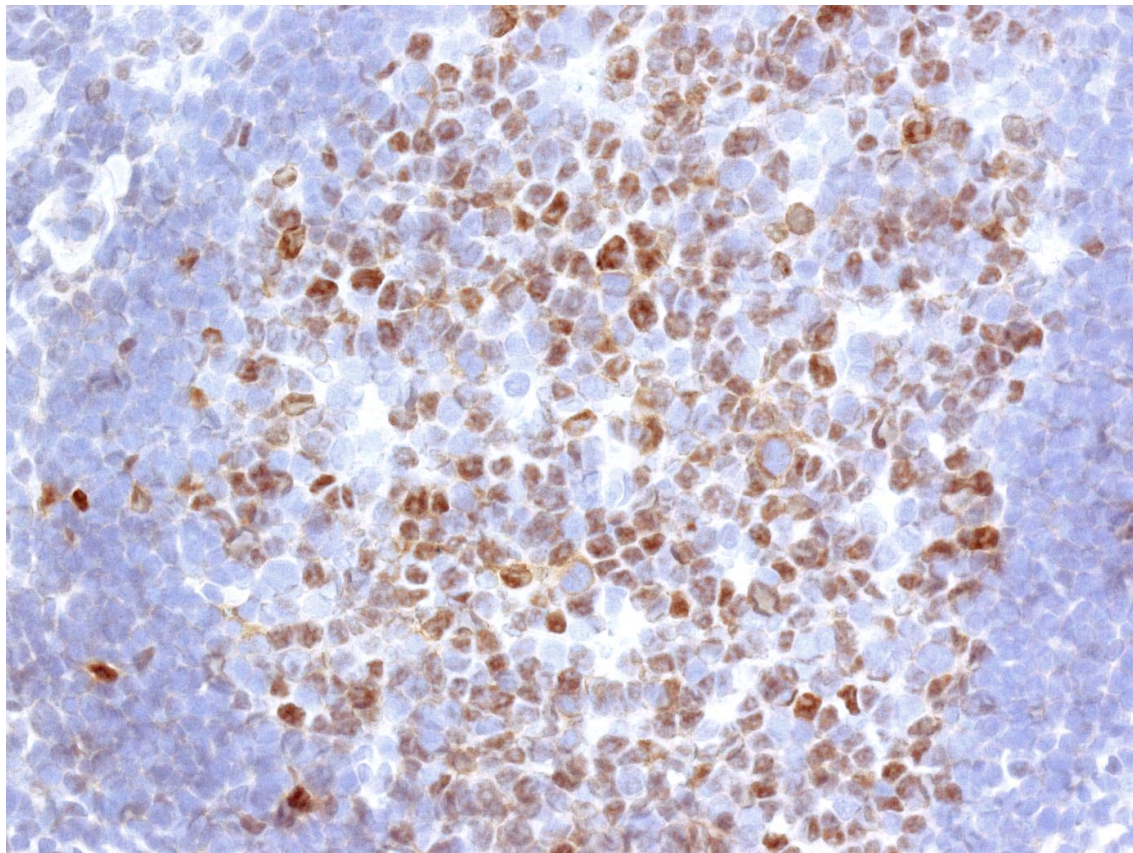
Recommended	GI191 E	1:350	supernatant	20 min R2 (Tris-EDTA)	Novolink kit	Tonsil		nuclear	mouse
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Immunofluorescence



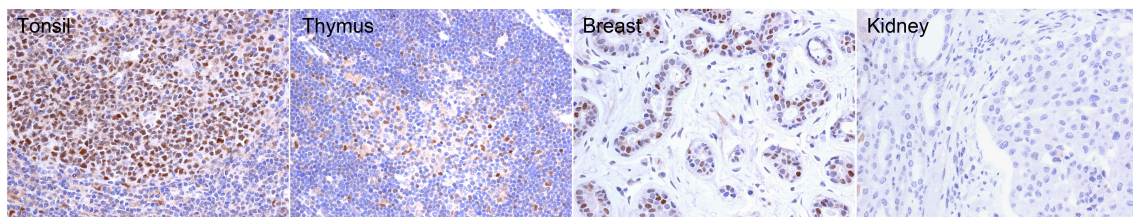
GI191EmAb in transfected cells

Nuclear and cytoplasmic staining on frozen cytospin preparations of transfected HEK293T/BCL6 cells using antibody GI191E. HEK-a-myb transfected cells were used as negative control.



GI191E mAb in frozen tonsil section

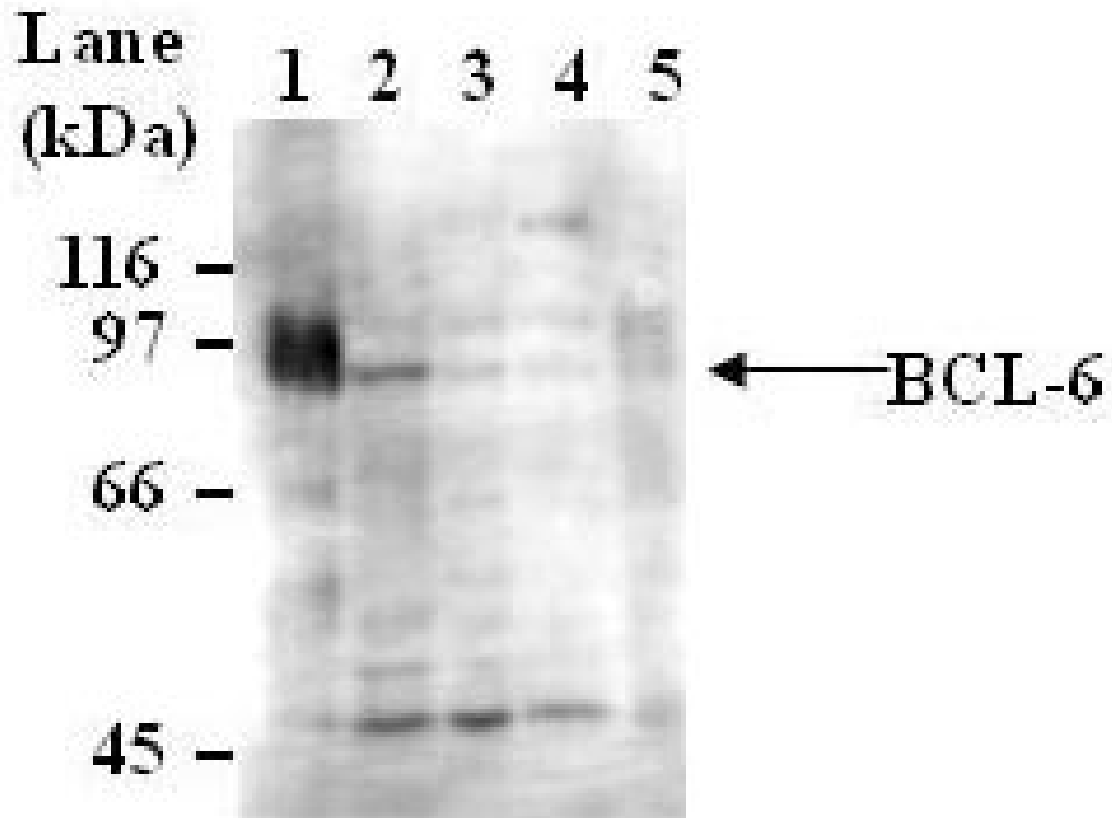
In tonsil, BCL6 protein is strongly expressed by germinal center B cells



GI191E staining in human paraffin sections.

In tonsil, BCL6 protein is strongly expressed by germinal center B cells. Testicle section was used as a negative control.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	GI191E	supernatant	1:20	Raji cell line		78kDa	80kDa	
Immunoprecipitation								



Western Blotting of BCL6 (GI191E) using different human cell lines.

Lane 1 Raji cell line (50ug) (+)

Lane 2 U937 cell line (50ug) (+)

Lane 3 HL-60 cell line (50ug) (+)

Lane 4 k562 cell line (42ug) (+)

Lane 5 HeLa cell line (50ug) (+)