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Product datasheet for TA500002

c-Myc (MYC) Mouse Monoclonal Antibody [Clone ID: OTI1A6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1A6
Applications:	FC, IF, IHC, WB
Recommend Dilution:	WB 1:2000, IHC 1:50, IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human Myc (NP_002458) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	50.4 kDa
Gene Name:	MYC proto-oncogene, bHLH transcription factor
Database Link:	NP_002458 Entrez Gene 4609 Human
Background:	c-Myc is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene.
Synonyms:	bHLHe39; c-Myc; MRTL; MYCC
Protein Families:	Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription Factors

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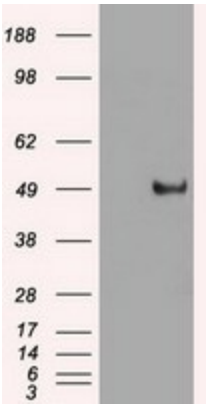
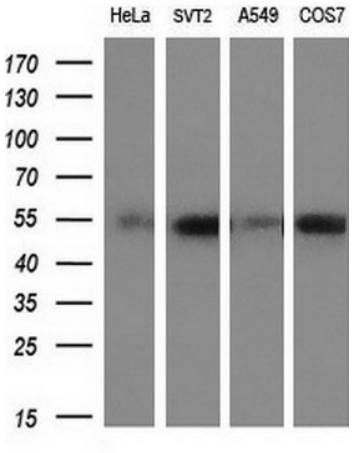
Protein Pathways: Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway, Thyroid cancer, Wnt signaling pathway

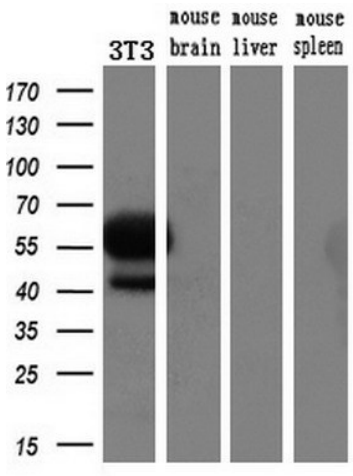
Product images:



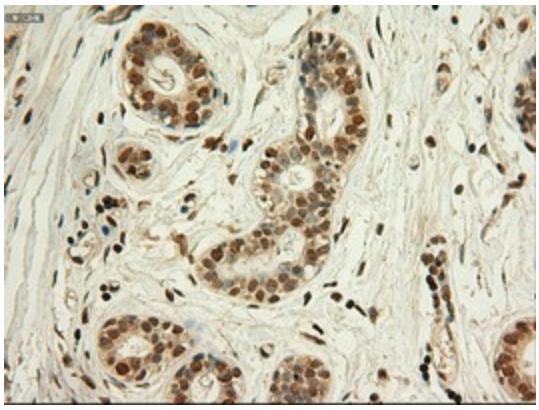
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MYC ([RC201611], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYC. Positive lysates [LY400876] (100ug) and [LC400876] (20ug) can be purchased separately from OriGene.



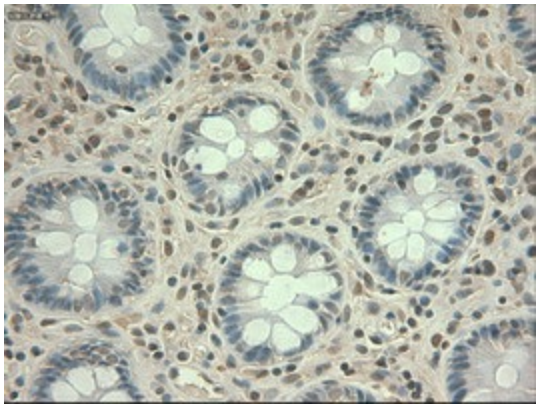
Western blot analysis of extracts (10ug) from 4 different cell lines by using anti-MYC monoclonal antibody at 1:200 dilution.



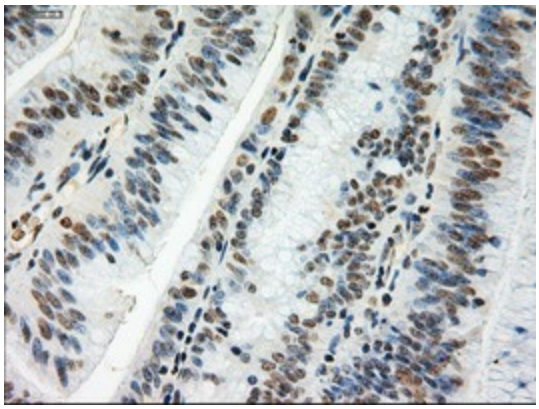
Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-MYC monoclonal antibody (1:200).



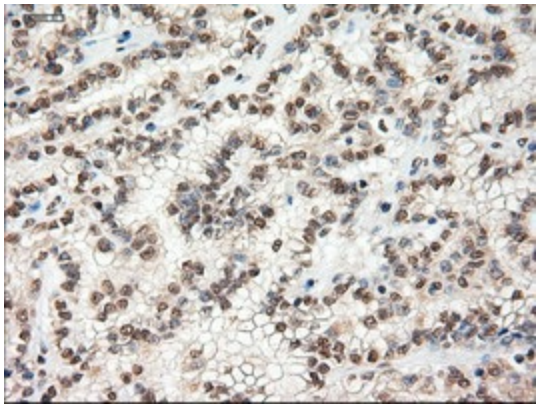
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



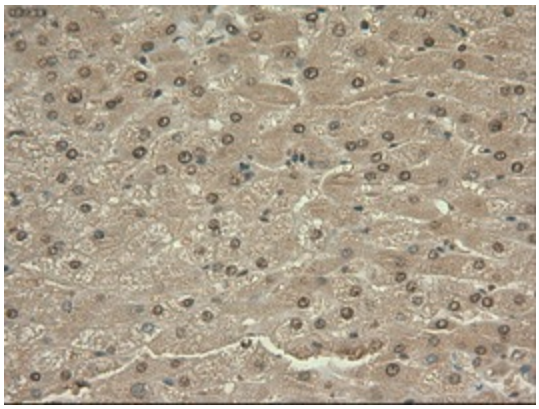
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



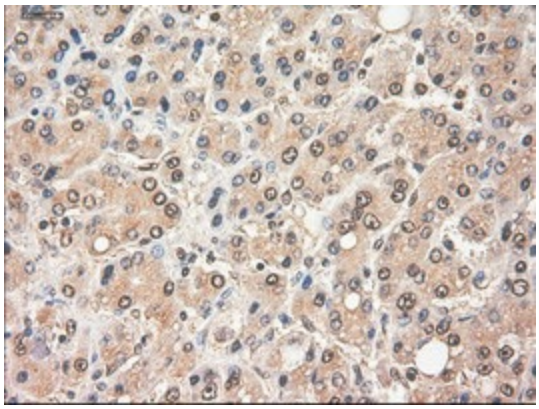
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



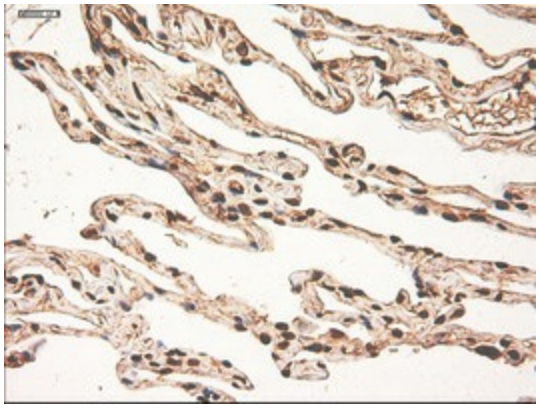
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



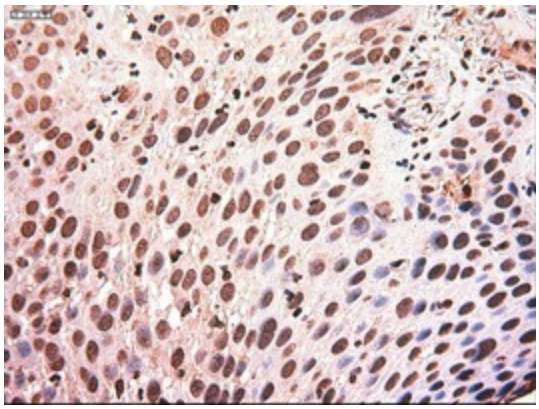
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



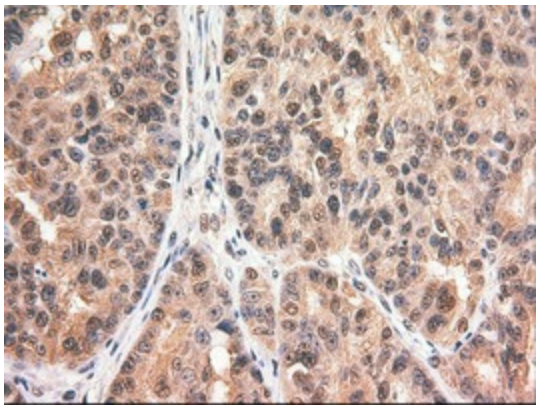
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



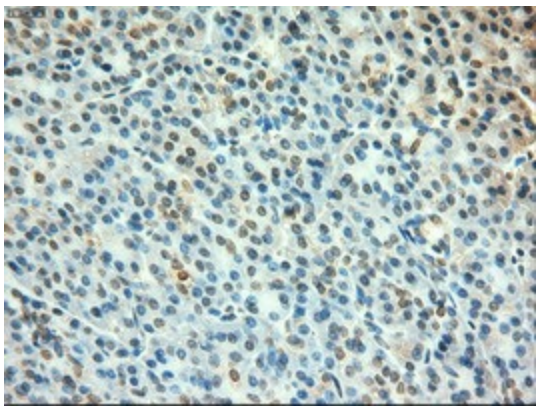
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



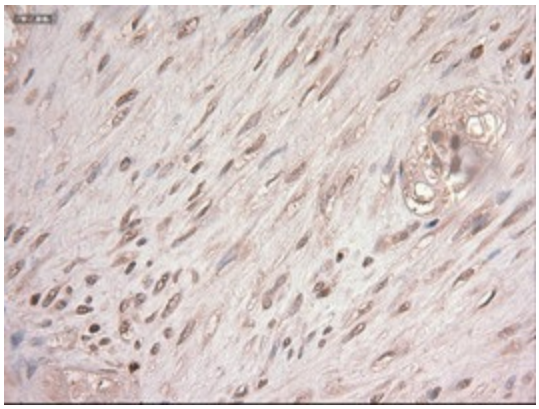
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



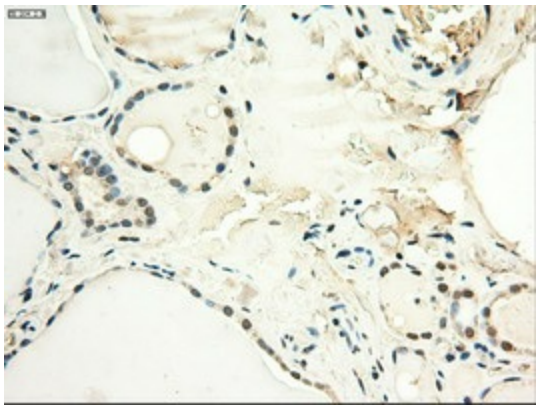
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



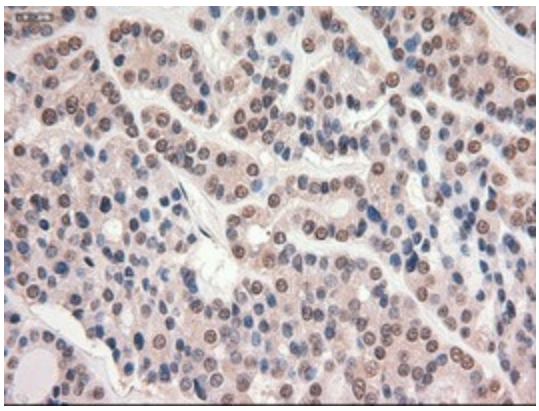
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



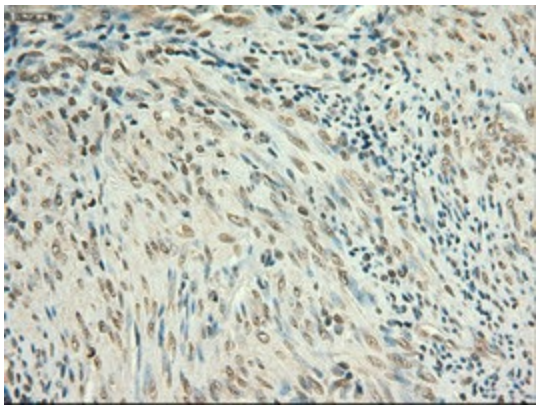
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



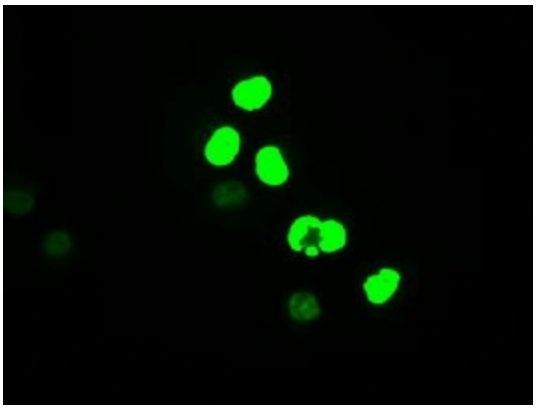
Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



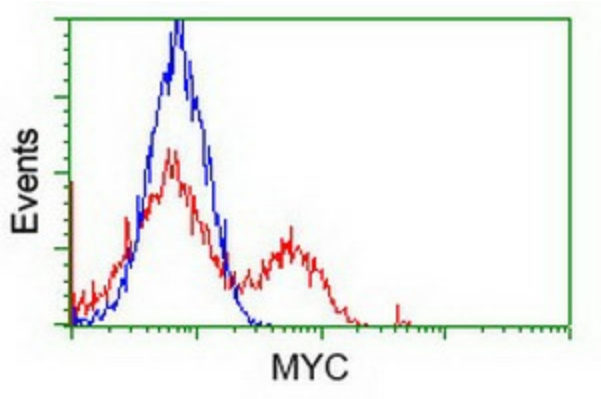
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-MYC mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500002)



Anti-MYC mouse monoclonal antibody (TA500002) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MYC ([RC201611]).



HEK293T cells transfected with either [RC201611] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MYC antibody (TA500002), and then analyzed by flow cytometry.