Phospho-Myc Sampler Kit

E051039

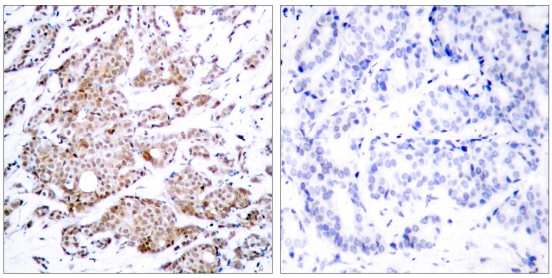
Kits Includes	Cat.	Quantity	Application	Reactivity	Source
Myc (Phospho-Thr58) Antibody	E011034-1	50μg/50μl	IHC, WB	Human, Mouse, Rat	Rabbit
Myc (Phospho-Thr358) Antibody	E011035-1	50μg/50μl	IHC, WB, IF	Human, Mouse, Rat	Rabbit
Myc (Phospho-Ser373) Antibody	E011036-1	50μg/50μl	IHC	Human, Mouse, Rat	Rabbit
Myc (Ab-358) Antibody	E021035-1	50μg/50μl	IHC, WB	Human, Mouse, Rat	Rabbit
Myc (Ab-373) Antibody	E021036-1	50μg/50μl	WB	Human, Mouse, Rat	Rabbit

MYC protein 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. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene. Participates in the regulation of gene transcription. Binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]TG-3'. Seems to activate the transcription of growth-related genes.

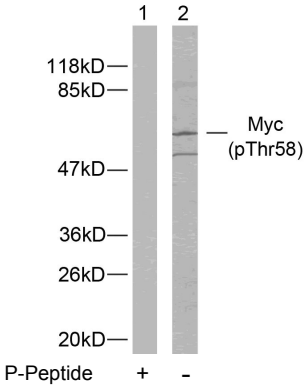
Myc (Phospho-Thr58) Antibody

E011034

Catalog Number: E011034-1, E011034-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20°C/1 year
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human Myc around the phosphorylation site of threonine 58 (L-P-T^P-P-P).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Specificity/Sensitivity: Myc (phospho-Thr58) antibody detects endogenous levels of Myc only when phosphorylated at threonine 58.
Reactivity: Human, Mouse, Rat
Applications: WB: 1:500~1:1000 IHC: 1:50~1:100
Swiss-Prot No. : P01106
References: Jin Z, et al. (2004) J Biol Chem. 279(38): 40209-40219.
Welcker M, et al. (2004) Proc Natl Acad Sci U S A. 101(24): 9085-9090.
Baudino T A, et al. (2001) Mol Cell Biol. 21: 691-702.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Myc (phospho-Thr58) antibody (E011034).

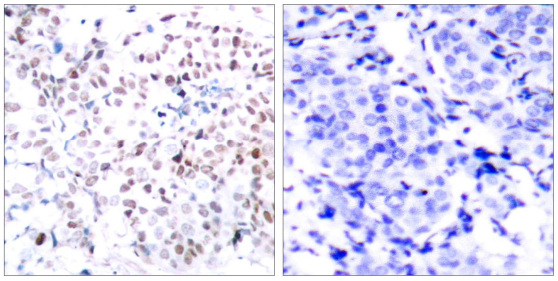


Western blot analysis of extracts from ovary cancer cells using Myc (phospho-Thr58) antibody (E011034).

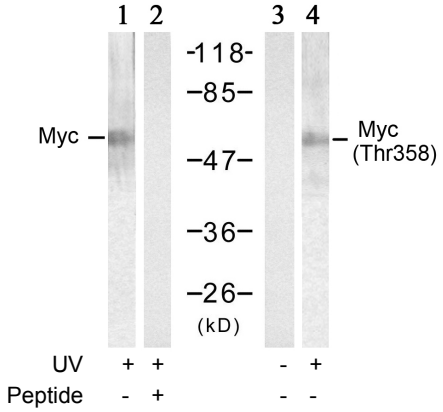
Myc (Phospho-Thr358) Antibody

E011035

Catalog Number: E011035-1, E011035-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20°C/1 year
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human Myc around the phosphorylation site of threonine 358 (R-R-T^{P}-H-N).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Specificity/Sensitivity: Myc (phospho-Thr358) antibody detects endogenous levels of Myc only when phosphorylated at threonine 358.
Reactivity: Human, Mouse, Rat
Applications: WB: 1:500~1:1000 IHC: 1:50~1:100 IF:1:100~1:200
Swiss-Prot No. : P01106
References:
Baudino T A, et al. (2001) Mol Cell Biol. 21: 691-702.
Blackwood E M, et al. (1991) Science. 251:1211-1217.
Henriksson M, et al. (1996) Adv Cancer Res. 68: 109-182.
Grandori C, et al. (2000) Annu Rev Cell Dev Biol. 16: 653-699.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Myc (phospho-Thr358) antibody (E011035).

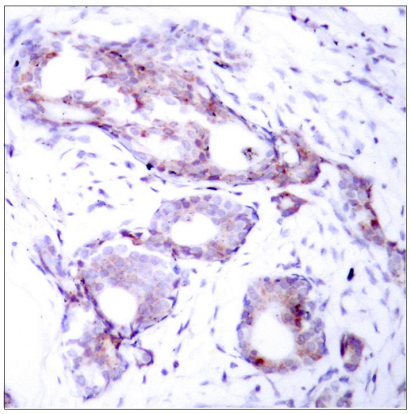


Western blot analysis of extracts from HT-29 cells treated with UV (20min), using Myc (Ab-358) antibody (E021035, Lane 1 and 2) and Myc (phospho-Thr358) antibody (E011035, Lane 3 and 4).

Myc (Phospho-Ser373) Antibody

E011036

Catalog Number: E011036-1, E011036-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20°C/1 year
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human Myc around the phosphorylation site of serine 373.
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Specificity/Sensitivity: Myc (phospho-Ser373) antibody detects endogenous levels of Myc only when phosphorylated at serine 373.
Reactivity: Human, Mouse, Rat
Applications: IHC: 1:50~1:100
Swiss-Prot No. : P01106
References:
Baudino T A, et al. (2001) Mol Cell Biol. 21: 691-702.
Blackwood E M, et al. (1991) Science. 251:1211-1217.
Henriksson M, et al. (1996) Adv Cancer Res. 68: 109-182.
Grandori C, et al. (2000) Annu Rev Cell Dev Biol. 16: 653-699.

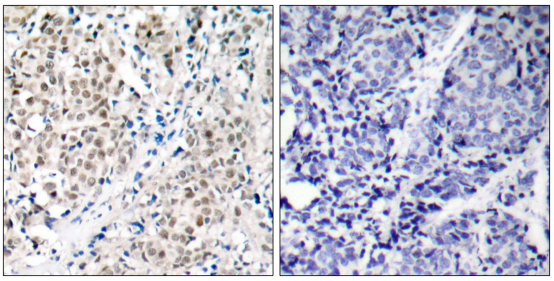


Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue, using Myc (phospho-Ser373) antibody (E011036).

Myc (Ab-358) Antibody

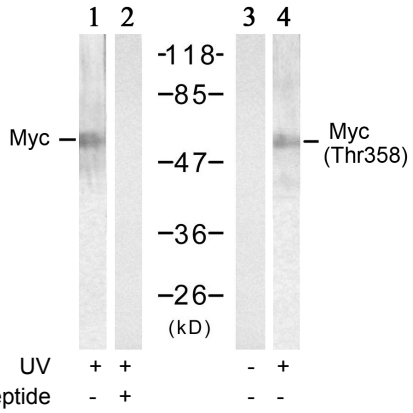
E021035

Catalog Number: E021035-1, E021035-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20°C/1 year
Immunogen: The antiserum was produced against synthesized non-phosphopeptide derived from human Myc around the phosphorylation site of threonine 358 (R-R-T^{P}-H-N).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity/Sensitivity: Myc (Ab-358) antibody detects endogenous levels of total Myc protein.
Reactivity: Human, Mouse, Rat
Applications: WB: 1:500~1:1000 IHC: 1:50~1:100
Swiss-Prot No. : P01106
References:
Baudino T A, et al. (2001) Mol Cell Biol. 21: 691-702.
Blackwood E M, et al. (1991) Science. 251:1211-1217.
Henriksson M, et al. (1996) Adv Cancer Res. 68: 109-182.
Grandori C, et al. (2000) Annu Rev Cell Dev Biol. 16: 653-699.



Peptide - +

Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue using Myc (Ab-358) antibody (E021035).

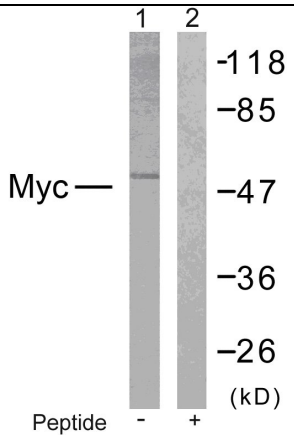


Western blot analysis of extracts from HT-29 cells treated with UV (20min), using Myc (Ab-358) antibody (E021035, Lane 1 and 2) and Myc (phospho-Thr358) antibody (E011035, Lane 3 and 4).

Myc (Ab-373) Antibody

E021036

Catalog Number: E021036-1, E021036-2
Amount: 50μg/50μl, 100μg/100μl
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20°C/1 year
Immunogen: The antiserum was produced against synthesized non-phosphopeptide derived from human Myc around the phosphorylation site of serine 373 (K-R-S^P-F-F).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity/Sensitivity: Myc (Ab-373) antibody detects endogenous levels of total Myc protein.
Reactivity: Human, Mouse, Rat
Applications: WB: 1:500~1:1000
Swiss-Prot No. : P01106
References:
Baudino T A, et al. (2001) Mol Cell Biol. 21: 691-702.
Blackwood E M, et al. (1991) Science. 251:1211-1217.
Henriksson M, et al. (1996) Adv Cancer Res. 68: 109-182.
Grandori C, et al. (2000) Annu Rev Cell Dev Biol. 16: 653-699.



Western blot analysis of extracts from NIH/3T3 cells treated with EGF using Myc (Ab-373) antibody (E021036).