

#4739 Store at -20°C

Max (S20) Antibody

100 µl
 (10 western blots)



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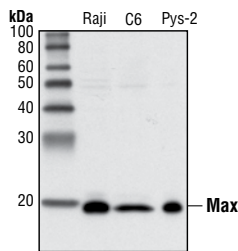
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IF-IC Endogenous	H, M, R, (Mk, B)	19-21 kDa	Rabbit**

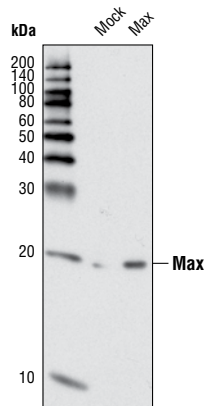
Background: Members of the Myc/Max/Mad network function as transcriptional regulators with roles in various aspects of cell behavior including proliferation, differentiation and apoptosis (1). These proteins share a common basic-helix-loop-helix leucine zipper (bHLH-ZIP) motif required for dimerization and DNA-binding. Max was originally discovered based on its ability to associate with c-Myc and found to be required for Myc's ability to bind DNA and activate transcription (2). Subsequently, Max has been viewed as a central component of the transcriptional network, forming homodimers as well as heterodimers with other members of the Myc and Mad families (1). The association between Max and either Myc or Mad can have opposing effects on transcriptional regulation and cell behavior (1). The Mad family consists of four related proteins; Mad1, Mad2 (Mxi1), Mad3 and Mad4, and the more distantly related members of the bHLH-ZIP family, Mnt and Mga. Like Myc, the Mad proteins are tightly regulated with short half-lives. In general, Mad family members interfere with Myc-mediated processes such as proliferation, transformation and prevention of apoptosis by inhibiting transcription (3,4).

Specificity/Sensitivity: Max (S20) Antibody detects endogenous levels of total Max protein.

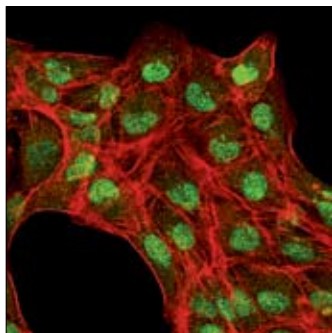
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of Max. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from various cell lines using Max (S20) Antibody.



Western blot analysis of extracts from HeLa cells, mock transfected or transfected with human Max construct, using Max (S20) Antibody.



Confocal immunofluorescent analysis of ACHN cells using Max (S20) Antibody (green). Actin filaments have been labeled with DY-554 phalloidin (red).

Entrez-Gene ID #4149
Swiss-Prot Acc. #P61244

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunofluorescence (IF-IC)	1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

- (1) Baudino, T.A. and Cleveland, J.L. (2001) *Mol. Cell. Biol.* 21, 691-702.
- (2) Blackwood, E.M. and Eisenman, R.N. (1991) *Science* 251, 1211-1217.
- (3) Henriksson, M. and Luscher, B. (1996) *Adv. Cancer Res.* 68, 109-182.
- (4) Grandori, C. et al. (2000) *Annu. Rev. Cell Dev. Biol.* 16, 653-699.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.