

Rabbit MAX Polyclonal Antibody | anti-MAX antibody

Phospho-MAX (Ser2) Antibody

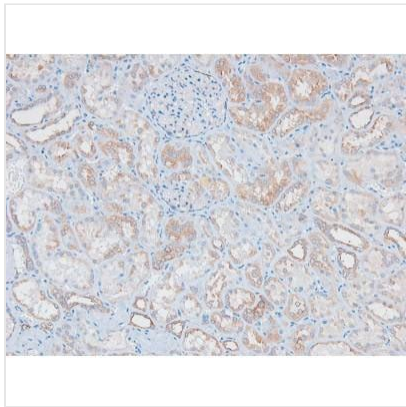
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329669	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

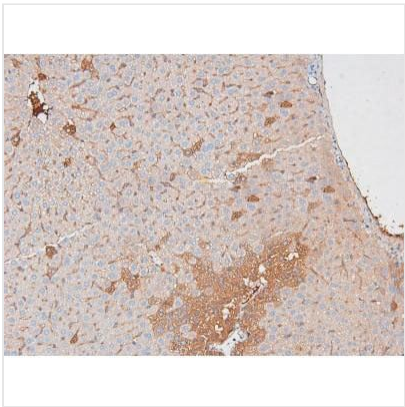
MAX; Polyclonal Antibody; Phospho-MAX (Ser2) Antibody; bHLHd4; bHLHd5; bHLHd6; bHLHd7; bHLHd8; Helix loop helix zipper protein; MAX protein; MGC10775; MGC11225; MGC18164; MGC34679; MGC36767; MYC associated factor X; Myc binding novel HLH/LZ protein; Orf 1; Orf1; Protein max; anti-MAX antibody

PRODUCT SPECIFICATIONS

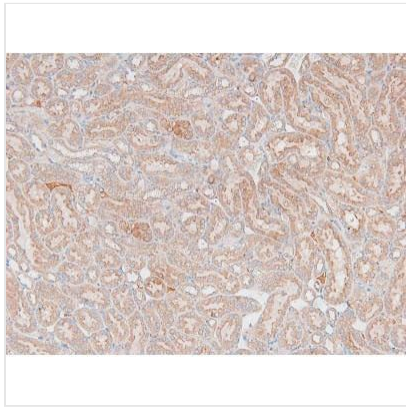
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MAX (Ser2) Antibody detects endogenous levels of MAX only when phosphorylated at Ser2. Tissue Specificity: High levels found in the brain, heart and lung while lower levels are seen in the liver, kidney and skeletal muscle.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MAX antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MAX around the phosphorylation site of Ser2.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Reversible lysine acetylation might regulate the nuclear-cytoplasmic shuttling of specific Max complexes.
Subunit Structure	Efficient DNA binding requires dimerization with another bHLH protein. Binds DNA as a heterodimer with MYC or MAD. Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2, MBLR, L3MBTL2 and YAF2. Component of some MLL1/MLL complex, at least composed of the core components KMT2A/MLL1, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components BAP18, CHD8, E2F6, HSP70, INO80C, KANSL1, LAS1L, MAX, MCRC1, MGA, MYST1/MOF, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10. Interacts with SPAG9. The heterodimer MYC:MAX interacts with ABI1; the interaction may enhance MYC:MAX transcriptional activity.
Similarity	Belongs to the MAX family.
Subcellular Location	Nucleus. Cell projection>Dendrite.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



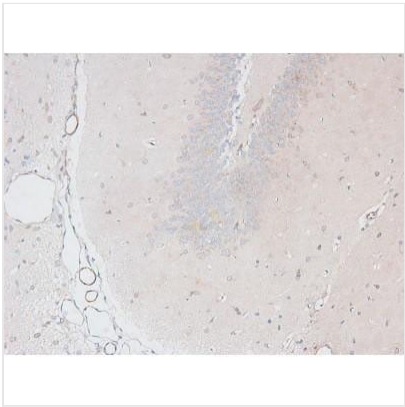
IHC (Immunohistochemistry)
At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



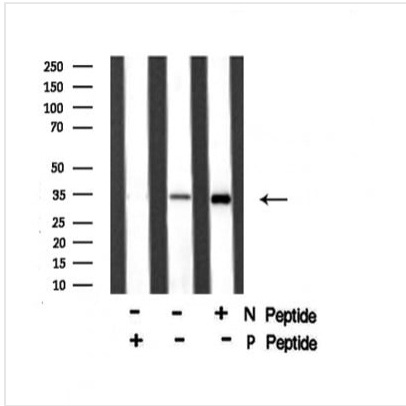
IHC (Immunohistochemistry)
At 1/200 staining Mouse liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of MAX (Phospho-Ser2) using Serum treated COS7 whole cell lysates. -/+ means absence or presence of N peptide¼non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-MAX antibody	Transcription regulator. Forms a sequence-specific DNA-binding protein complex with MYC or MAD which recognizes the core sequence 5'-CAC[GA]TG-3'. The MYC:MAX complex is a transcriptional activator, whereas the MAD:MAX complex is a repressor. May repress transcription via the recruitment of a chromatin remodeling complex containing H3 'Lys-9' histone methyltransferase activity. Represses MYC transcriptional activity from E-box elements.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47117704
NCBI GeneID	4149
UniProt Accession #	P61244; P25912; P52163; Q14803; Q96CY8; A6NH73; A8K265; A8K4G4; A8K824
Molecular Weight	160
NCBI Official Full Name	Protein max
NCBI Official Synonym Full Names	MYC associated factor X
NCBI Official Symbol	MAX
NCBI Official Synonym Symbols	bHLHd4
NCBI Protein Information	protein max; class D basic helix-loop-helix protein 4
UniProt Protein Name	Protein max
UniProt Gene Name	MAX
UniProt Synonym Gene Names	BHLHD4; bHLHd4
UniProt Entry Name	MAX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.