

AM33281PU-S Monoclonal Antibody to Biotin - Purified

Alternate names:	Vitamin B7, Vitamin H
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	SPM375
Immunogen:	Biotinylated Sheep immunoglobulin.
Format:	State: Liquid purified IgG fraction from Bioreactor Concentrate Purification: Protein A/G Chromatography Buffer System: 10mM PBS Preservatives: 0.05% Sodium Azide Stabilizers: 0.05% BSA
Applications:	ELISA. Western Blotting. Confocal Microscopy. Flow Cytometry: 0.5-1 $\mu\text{g}/10^6$ cells. In situ Nucleic Acid Hybridization. Immunofluorescence: 0.5-1 $\mu\text{g}/\text{ml}$. Immunohistochemistry on Frozen and Formalin-Fixed Sections: 0.5-1 $\mu\text{g}/\text{ml}$ for 30 minutes at RT. No special pretreatment is required for the immunohistochemical staining of formalin-fixed, paraffin-embedded tissues. <i>Recommended Positive Control:</i> Biotinylated proteins in solution or on tissues. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	244kDa
Specificity:	It recognizes both the free and protein-conjugated (either soluble or cell bound) form of Biotin. This Monoclonal Antibody is highly specific to Biotin and shows no cross-reaction with other structurally related compounds. It has a very high affinity for Biotin and is excellent for use in various amplification techniques. In some applications, localization of biotinylated probes with avidin produces unacceptably high background staining. Anti-Biotin antibody may be substituted to decrease this noise. <i>Cellular Localization:</i> Depends on the target.
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.

General Readings:

1. Uccellini MB, Busconi L, Green NM, Busto P, Christensen SR, Shlomchik MJ, et al. Autoreactive B cells discriminate CpG-rich and CpG-poor DNA and this response is modulated by IFN-alpha. *J Immunol*. 2008 Nov 1;181(9):5875-84. PubMed PMID: 18941176.
2. Green NM, Moody KS, Debatis M, Marshak-Rothstein A. Activation of autoreactive B cells by endogenous TLR7 and TLR3 RNA ligands. *J Biol Chem*. 2012 Nov 16;287(47):39789-99. doi: 10.1074/jbc.M112.383000. Epub 2012 Sep 27. PubMed PMID: 23019335.

Pictures:

Formalin-Paraffin tonsil stained with Biotinylated Lambda Light Chain probe followed by Biotin Antibody AM33281PU (Clone SPM375). Note cell membrane & cytoplasmic staining.

