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AM33308PU-T Monoclonal Antibody to Biotin - Purified

Alternate names:	Vitamin B7, Vitamin H
Quantity:	20 µg
Concentration:	0.2 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	Hyb-8
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:	**Western Blotting.** **Confocal Microscopy.** **Flow Cytometry:** 0.5-1 µg/10^6 cells. **In situ Nucleic Acid Hybridization.** **Immunofluorescence:** 0.5-1 µg/ml. **Immunohistochemistry on Frozen and Formalin-Fixed Sections:** 0.5-1 µg/ml for 30 minutes at RT. No special pretreatment is required for the immunohistochemical staining of formalin-fixed, paraffin-embedded tissues. ***Recommended Positive Control:*** 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. ***Cellular Localization:*** Depends on the target.
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!** Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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 anti-Biotin Antibody Cat.-No AM33308PU (Clone Hyb-8). Note cell membrane & cytoplasmic staining.