

MONOTOPE [™] product information for
Epstein-Barr Virus

I. Monoclonal Antibody (Mouse) Specificity

Product No.'s	Ig class	
0211	NA	IgG1 specific for the EB nuclear antigen (EBNA-1). Functions in WB, IP & IHC (antigen retrieval).
0235	NA	IgG1 specific for the early antigen (restricted) homologue Bcl-2. Functions in ELISA, WB, IHC & IP.
0221	0223	IgG1 specific for envelope glycoprotein complex 250/350. Functions in IFA and blotting.
0231	NA	IgG1 specific for viral capsid antigen (VCA); functions well in IFA but not western blot.
0241	NA	IgG1 specific for the glycoprotein region of VCA (VCA-gp); functions well in IFA but not western blot assays.
0256	NA	IgG2 specific for the early antigen (BAM HI Z) zeta protein. Functions in ELISA, WB, IHC & IP.
0261	NA	IgG2 specific for the " Early antigen-diffuse" (EA-D)of EBV; functions in IFA, western blot & IHC (weak).

II. Purified Preparations

Product No.'s
0211
0235
0221
0231
0241
0256
0261

MONOTOPE™ purified preparations consist of >90% pure mouse monoclonal antibody which has been purified from ascites fluid or culture medium by protein A chromatography or sequential differential precipitations. The final preparation is formulated to a protein concentration of 100 µg/ml in 0.01 M phosphate buffered saline, pH 7.2 and contains 0.1% sodium azide. Each vial contains 1.0 ml. This product contains no stabilizing proteins and should be stored at -20°C until ready for use. Avoid repeated freeze-thawing by storing multiple aliquots at -20°C. Working dilution must be determined by the user. Suggested starting ranges are 1:10-1:50 for IFA, blotting & IHC and 1:20-1:200 for ELISA. Custom conjugation of this antibody with HRP, alkaline phosphatase, biotin and fluorescein is available on a minimum order basis

THESE PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

III. Fluorescein Conjugates

Product No.'s
NA
NA
0223
NA
NA
NA
NA
NA

These MONOTOPE™ products consist of purified monoclonal antibody conjugated with high purity isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product. The final preparation is formulated to an antibody concentration of 100 µg/ml in 0.01 M phosphate buffered saline, pH 7.2 containing 0.1% sodium azide plus bovine serum albumin at 10 mg/ml. Each vial contains 1.0 ml. This product should be stored at -20°C until ready for use. Avoid repeated freeze-thawing by storing multiple aliquots at -20°C. Applications for these products include direct FA staining of target antigen in a permissive tissue culture system. Working strength must be determined by the user for each specific application but a starting range of 1:5 - 1:20 is recommended. Acetone fixation of the antigen source is recommended prior to staining.

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Comments: For immunostaining cells containing EBNA-1 with product 0211, slides must be fixed in methanol/acetone (3:7) at -20 °C. After drying at room temperature, slides should be stored at 4°C (1 month) or -20°C (6-12 months). A highly amplified assay must be used to detect the low amount of EBNA expressed, i.e. Maby + Goat Anti-Mouse IgG + Rabbit Anti-Goat IgG-FITC conj.
EBNA-1 mabys 0211 & 0216 are reactive with the carboxy terminus (~ last 100 aa) of the molecule.