



# Product Specification Sheet

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## EpiSep Anti-URO-1 (P1B5)<sup>®</sup> Magnetic Particles

**FOR RESEARCH USE ONLY:** This product is not for diagnostic or therapeutic use.

**CATALOG #:** R2123-1

**DESCRIPTION:** EpiSep Anti-URO-1 (P1B5)<sup>®</sup> Magnetic Particles are submicron uniform diameter, paramagnetic beads coated with mouse monoclonal P1B5 antibody. The P1B5 antibody recognizes the alpha 3 subunit of VLA-3 (ECMRI - extracellular matrix receptor I, URO-1). The antibody detects 3 components of the alpha 3 subunit glycoprotein complex (MW 30kDa, 120kDa and 140kDa). VLA proteins are part of the integrin family of cell adhesion molecules.

**FOR RESEARCH  
USE ONLY:**

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**SUPPLIED AS:** 1.0 mL of suspended magnetic particles in 0.020M Phosphate Buffer pH 7.4, 0.150M NaCl, 1.0% BSA, 0.1% Sodium Azide. Approximately 1mg/mL.

**STABILITY:** Recommended storage upon receipt is 4-8°C. **DO NOT FREEZE.** Stable when stored at 4-8°C. Can be stored for up to 12 months at 4-8°C. **DO NOT STORE AT ROOM TEMP.**

**APPLICATIONS  
AND SUGGESTED  
USE:**

Enrichment of urothelial cells for use with FISH, Immunocytochemistry, Flow Cytometry and PCR.  
Resuspend particles prior to each use by inversion several times.  
Generally, 25 $\mu$ L to 100 $\mu$ L of particles will be sufficient to capture cells in most specimens.

**RELATED****PRODUCTS:**

EpiSep Alcohol Fixative<sup>®</sup>, (Cat#R2114-1)  
EpiSep Hybridization Slide<sup>™</sup>, (Cat#A3104-10)  
NeoMag Slide Dock for Hybridization Slide<sup>®</sup> (NSD II<sup>®</sup>), (Cat#A1102-3)  
Magnetic Tube Dock, 50mL<sup>®</sup> (MTD-50<sup>®</sup>), (Cat#A4101-1)

**APPLICATION****SHEETS:**

EpiSep Preparation and Isolation of Urothelial Cells from Preserved Urine for use with FISH. (Ref. Doc#ML080612-1)

**MATERIAL****SAFETY DATA:**

When handling this material Standard Laboratory Practices should be followed. This material's chemical, physical and toxicological properties have not been thoroughly investigated. Contains Sodium Azide as a preservative. Although, the quantity of sodium azide (0.1%) is very small, measures should be taken to avoid skin and eye contact, inhalation and ingestion. Sodium Azide (NaN<sub>3</sub>) may react with lead and copper plumbing to form potentially explosive metal oxides. Upon disposal, flush with a large volume of water to prevent azide build-up.

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4. Miyamoto, S., et al. 1995. Synergistic roles for receptor occupancy and aggregation in Integrin transmembrane function. *Science* 267: 883-885.
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9. Takada Y, Wayner EA, Carter WG, Hemler ME. Extracellular matrix receptors, ECMRII and ECMRI, for collagen and fibronectin correspond to VLA-2 and VLA-3 in the VLA family of heterodimers. *J Cell Biochem.* 1988 Aug;37(4):385–393.
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The function of multiple extracellular matrix receptors in mediating cell adhesion to extracellular matrix: preparation of monoclonal antibodies to the fibronectin receptor that specifically inhibit cell adhesion to fibronectin and react with platelet glycoproteins Ic-IIa. *J. Cell Biol.*, Nov 1988; 107: 1881 - 1891.