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Mouse Anti-Human PSMA Monoclonal Antibody Datasheet

Product Name: mAb anti-human PSMA

Clone No.: YPSMA-1

Catalogue No.: MO-T40086A

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human Prostate Specific Membrane Antigen (PSMA)

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human Prostate Specific Membrane Antigen (PSMA)

Immunogen: Crude membrane protein preparation from pooled prostate malignant carcinoma from China.

Fusion Myeloma: Sp2/0-Ag14

Specificity: This antibody is reactive to PSMA expressed LNCap cell lines.

Species Reactivity: Human, others not tested

Cross-Reactivity: Little or no cross-reactivity to benign prostate hyperplasia (BPH) or to normal prostatic tissue.

Host / Isotype: Mouse, IgG2b Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.0

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Oncology

Background: Prostate specific membrane antigen (PSMA) is a type II trans-membrane glycoprotein found in the epithelium of prostate. It is also

detectable in duodenal mucosa, renal tubules and some neuroendocrine cells. In other normal tissue, PSMA expression is not detectable. Because the expression of this membrane is elevated in malignant prostate tumour, PSMA has been used as a marker as well as a therapeutic target for prostate cancer. Elevated PSMA expression has also been identified in metastases of lymph nodes.

Applications: **Immuno-histochemistry:** This antibody was used on formalin-fixed paraffin embedded and frozen tissue sections.

Indirect ELISA: This antibody is reactive to PSMA expressing LNCap cells coated ELISA plate.

Western blot: The antibody, when used at 1µg/ml concentration, identified the 100KDa PSMA in LNCap cell extract.

References: 1. ZY Zhu et al., PSMA mimotope isolated from phage displayed peptide library can induce PSMA specific immune response. Cell Research (1999) 9:271-280.

2. Y Horiguchi et al., Screening of HLA-A24-restricted epitope peptides from prostate-specific membrane antigen that induce specific antitumor cytotoxic T lymphocytes. Clin Cancer Res (2002) 8:3885

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