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Polyclonal Antibody to STEAP (14-28) - Aff - Purified

Catalog No.: SP6215P

Quantity: 50 µg

Concentration: 0.2 mg/ml

Background: Prostate cancer is the most frequently diagnosed cancer and is the second leading cause of cancer-related deaths in American men (1). Although the early serum detection of prostate-specific antigen (PSA) plays important roles on early diagnosis, it may not distinguish prostate cancer from benign diseases (2, 3). Recently, a novel protein, which contains 339 amino acids, named STEAP (six-transmembrane epithelial antigen of the prostate), was identified in advanced prostate cancer (4). STEAP is unique among the currently known prostate cancer markers because of its putative secondary structure, from which one may predict that it functions as a potential channel protein. STEAP is strongly expressed in advanced prostate cancer and some extent expression in other cancers, such as colon and ovarian cancer cell lines.

Host: Rabbit

Immunogen: Synthetic peptide corresponding to amino acids 14-28 of human STEAP
AA Sequence:
WKMKPRRNLEEDDYL

Format: **State:** Liquid Ig fraction
Purification: Epitope affinity chromatography
Buffer System: 1x PBS (pH 7.4) containing 0.05 % sodium azide

Applications: ELISA: 0.1 - 1.0 µg/ml.
Western blot: 0.5 - 2 µg/ml, detects a band of ~39 kDa.
Immunoprecipitation (recommended but not tested): 3.0 - 5.0 µg/extract from 10e7 cells.
Immunohistochemistry on frozen sections (recommended but not tested): 2.0-5.0 µg/ml.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts with STEAP.
Species: Human.
Other species not tested.

Storage: Store the antibody undiluted at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.

General Readings:
1. Lalani EN et al (1997) Cancer Mestatasis Rev, 16. 29-66.
2. Oesterling JE (1992) J. Am. Med Assoc. 267, 2236-2238.
3. Van Iesel MP, et al (1995) Br J Urol. 76, 47-53.
4. Hubert RS et al (1999) Proc. Natl. Acad. Sci. USA 96 (25), 14523-14528.

Pictures:

WB: A431 cell lysate probed with anti-STEAP at 1 µg/ml.