**DESCRIPTION**

Species Reactivity: Human

Specificity: Detects human Kallikrein 3/PSA in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) Factor X, rhHGF-A, rhKLK-4, -5, -6, -11, or rhThrombin is observed.

Source: Monoclonal Mouse IgG Clone # 181827

Purification: Protein A or G purified from hybridoma culture supernatant

Immunogen: Mouse myeloma cell line NSO-derived recombinant human Kallikrein 3/PSA Pro19-Pro261

Accession #: NP_001639

Formulation: Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

- **Recommended Concentration**
  - Immunocytochemistry: 8-25 µg/mL
  - Immunohistochemistry: 5-25 µg/mL
  - Neutralization: Measured by its ability to neutralize Recombinant Human Kallikrein 3/PSA (10 µg/mL, Catalog # 1344-SE) cleavage of the fluorogenic peptide substrate Suc-RPY-pNA (1 mM). The Neutralization Dose (ND50) is typically 21 µg/mL.

**DATA**

**Immunocytochemistry**

Kallikrein 3PSA in LNCaP and MCF-7 Human Cell Lines.

Kallikrein 3PSA was detected in immersion fixed LNCaP human prostate cancer cell line (positive control, left panel) and MCF-7 human breast cancer cell line (negative control, right panel) using Mouse Anti-Human Kallikrein 3PSA Monoclonal Antibody (Catalog # MAB13441) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm in LNCaP cells. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

**Immunohistochemistry**

Kallikrein 3PSA in Human Prostate.

Kallikrein 3PSA was detected in immersion fixed paraffin-embedded sections of human prostate using Mouse Anti-Human Kallikrein 3PSA Monoclonal Antibody (Catalog # MAB13441) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in epithelial cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

**PREPARATION AND STORAGE**

- Reconstitution: Reconstitute at 0.5 mg/mL in sterile PBS.
- Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
- Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
  - 12 months from date of receipt, -20 to -70 °C as supplied.
  - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
  - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

Kallikrein 3 is a member of the Kallikrein family of serine proteases. It is also known as PSA (prostate-specific antigen) and is used in prostate cancer diagnosis.