

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TBK-1 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TBK-1 Met1-Gly121 Accession # Q9UHD2
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.

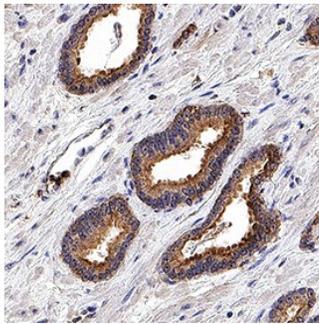
APPLICATIONS

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	Sample
Immunohistochemistry	3-15 µg/mL	See Below

DATA

Immunohistochemistry



TBK1 in Human Prostate Cancer Tissue.

TBK1 was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Sheep Anti-Human TBK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF9934) at 3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in epithelial cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

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. <ul style="list-style-type: none"> ● 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

TANK binding kinase-1 (TBK1), encoded by the TBK1 gene, is a multimeric Serine/threonine-protein kinase that mediates a crosstalk between the innate immune response and autophagy. TBK1 was first identified as a TANK-interacting protein controlling NF-κB-mediated responses. Mutations in TBK1 have been found in conditions like amyotrophic lateral sclerosis (ALS), frontotemporal dementia (FTD), normal tension glaucoma (NTG) and childhood herpes simplex encephalitis (HSE). Gain-of-function of TBK1 are associated with NTG, whereas loss-of-function mutations result in ALS/FTD or in HSE.