

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NIK/MAP3K14 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 603917
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human NIK/MAP3K14 Glu769-Pro947 Accession # Q99558
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.

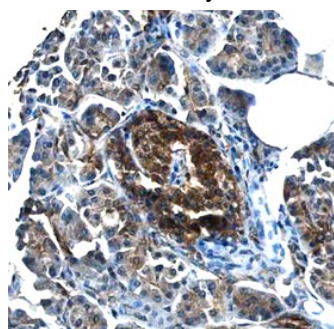
APPLICATIONS

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	8-25 µg/mL	See Below

DATA

Immunohistochemistry



NIK/MAP3K14 in Human Pancreas.
NIK/MAP3K14 was detected in immersion fixed paraffin-embedded sections of human pancreas using Mouse Anti-Human NIK/MAP3K14 Monoclonal Antibody (Catalog # MAB6888) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to pancreatic islets. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

NIK (NFKB inducing kinase), also called MAP3K14, is a widely expressed 947 amino acid (aa), ~100 kDa cytoplasmic protein of the MAP kinase family. NIK participates in a non-canonical NFKB signaling cascade in which its activity and expression are elevated by TNF and related ligands. NIK activates IKKa/b, which releases NFKB subunits for translocation to the nucleus. Within the region used as an immunogen, human NIK shares 94% and 95% aa sequence identity with mouse and rat NIK, respectively.