

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GKAP in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 727425
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GKAP Lys368-Glu472 Accession # O14490
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 as a 0.2 µm filtered solution in PBS.

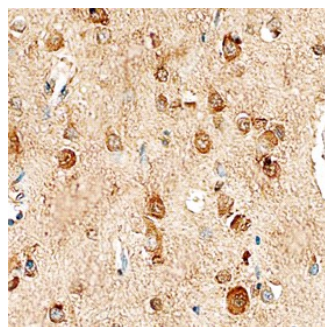
APPLICATIONS

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



GKAP in Human Brain. GKAP was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using Mouse Anti-Human GKAP Monoclonal Antibody (Catalog # MAB7296) 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 the cytoplasm of neurons. 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

GKAP, also known as DAP1, DLGAP, and SAPAP1, is an approximately 45 kDa cytoplasmic membrane associated protein. GKAP is a component of a neuronal postsynaptic complex that also includes PSD-95 and SHANK. This complex links neurotransmitter channels with the cytoskeleton and can promote NMDA R channel opening. Alternate splice forms of human GKAP have N-terminal and/or C-terminal truncations and are differentially expressed during brain development. Within aa 368-472 human, mouse, and rat GKAP share 100% aa sequence identity.