

## DESCRIPTION

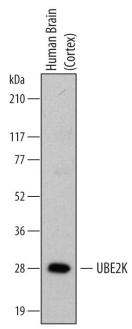
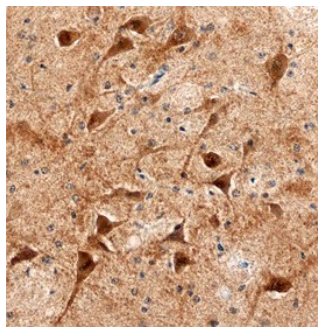
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human UBE2K/E2-25K in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 701316
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human UBE2K/E2-25K Ala2-Asn200 Accession # P61086
<b>Formulation</b>	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
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human UBE2K/E2-25K by Western Blot.</b> Western blot shows lysates of human brain (cortex) tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human UBE2K/E2-25K Monoclonal Antibody (Catalog # MAB6609) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for UBE2K/E2-25K at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>UBE2K/E2-25K in Human Brain.</b> UBE2K/E2-25K was detected in immersion fixed paraffin-embedded sections of human Alzheimer's brain using Mouse Anti-Human UBE2K/E2-25K Monoclonal Antibody (Catalog # MAB6609) 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 &amp; Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neurons. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

UBE2K (Ubiquitin-conjugating enzyme E2; also E2-25K, HIP-2, UBE2K-25K and LIG) is a 24-26 kDa cytosolic member of the UBE family of proteins. It is widely expressed (in neurons, monocytes and neutrophils), and acts to ubiquitinate proteins targeted for degradation. UBE2K serves as an E2 ubiquitin conjugating enzyme with a preference for ubiquitin chain generation through Lys48. It appears to polyubiquitinate targets once they have been monoubiquitinated, and to act as either a monomer or dimer. Human UBE2K is 200 amino acids (aa) in length. It contains one UBA domain (aa 160-200). There are two potential splice variants that show a deletion of aa 22-72 and 134-176, respectively. Human and mouse UBE2K are identical in aa sequence.