

DESCRIPTION

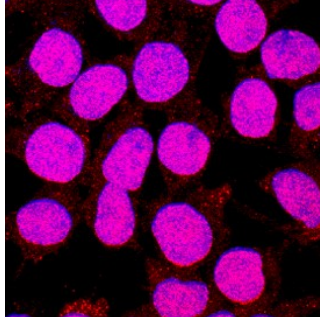
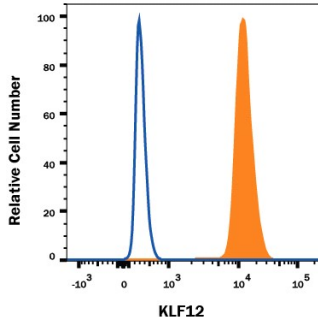
Species Reactivity	Human
Specificity	Detects human KLF12 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1230C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived human KLF12 Asn2-Val402 Accession # Q9Y4X4
Formulation	Lyophilized 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
Immunocytochemistry	1-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10 ⁶ cells	See Below

DATA

<p>Immunocytochemistry</p>  <p>KLF12 in HEK293 Human Cell Line. KLF12 was detected in immersion fixed HEK293 human embryonic kidney cell line using Rabbit Anti-Human KLF12 Antigen Affinity-purified Monoclonal Antibody (Catalog # MAB9097) at 2 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>	<p>Intracellular Staining by Flow Cytometry</p>  <p>Detection of KLF12 in MG-63 Human Cell Line by Flow Cytometry. MG-63 human osteosarcoma cell line was stained with Rabbit Anti-Human KLF12 Monoclonal Antibody (Catalog # MAB9097, filled histogram) or isotype control antibody (Catalog # AB-105-C, open histogram), followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for Staining Intracellular Molecules.</p>
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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

Kruppel-like factor 12 is a protein that in humans is encoded by the KLF12 gene. The protein encoded by this gene confers strong transcriptional repression to the AP-2-alpha gene, a developmentally-regulated transcription factor active during vertebrate development and carcinogenesis. KLF12 has been reported as a novel tumor-suppressor gene whose loss of function is associated with anoikis resistance. Three isoforms have been found for this gene.