R&D SYSTEMS
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Human TCF-12/HTF4 Antibody

Monoclonal Mouse IgG_1 Clone # 690129

Catalog Number: MAB69281

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TCF-12/HTF4 in direct ELISAs. In direct ELISAs, 75%-100% cross-reactivity with recombinant human (rh) TCF-3 and no cross-reactivity with rhTCF-1, -2, -4, or rhStathmin-2 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 690129
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human TCF-12/HTF4 Met108-Glu521 Accession # Q99081
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.

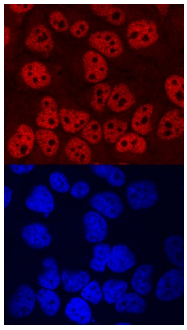
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



TCF-12/HTF4 in HeLa Human Cell Line. TCF-12/HTF4 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human TCF-12/HTF4 Monoclonal Antibody (Catalog # MAB69281) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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.** ● 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

TCF-12 (transcription factor 12), also called HTF4, bHLHb20 and HEB, is a 682 amino acid (aa) DNA binding protein of the E protein family of helix-loop-helix (HLH) transcription factors. E proteins, including TCF-12 and E2A, mediate lymphocyte differentiation and also function in neurogenesis. Homo-oligomerization is required for activity; hetero-oligomers are also formed. The region of human TCF-12 used as an immunogen excludes the HLH domain and shares 94% aa sequence identity with mouse and rat TCF-12. Potential isoforms of 706 and 648 aa contain an insertion of 24 aa after aa 396, while isoforms of 648, 624 and 512 aa show alternate N-terminal sequences that merge with the 682 aa form at aa 75, 75 and 194, respectively.

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