

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GLI-3 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2352B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GLI-3 Met1-Glu479 Accession # P10071
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.

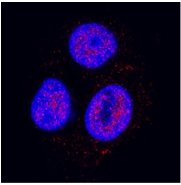
APPLICATIONS

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.

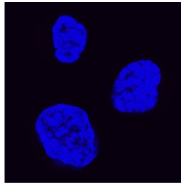
	Recommended Concentration	Sample
Immunocytochemistry	3-25 µg/mL	Immersion fixed SW480 human fibroblast carcinoma cell line

DATA

Immunocytochemistry



Positive (SW480 cells)



Negative (A549 cells)

GLI-3 in Human SW480 cell line. GLI-3 was detected in immersion fixed human SW480 fibroblast carcinoma cell line (positive staining) and A549 human lung carcinoma cell line (negative staining) using Rabbit Anti-Human GLI-3 Monoclonal Antibody (Catalog # MAB3690) at 3 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 plasma membrane. Staining was performed using our protocol for Fluorescent ICC Staining of Adherent Cells.

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

GLI3 is a zinc finger protein. The GLI family of proteins are transcription factors and are mediators of Sonic hedgehog signaling. GLI3 is known to be a transcriptional repressor but also may have a positive transcription function. Mutations in the GLI3 gene are associated with many polydactyly diseases.

References:

Rupert JM., Vogelstein B., Arheden K., Kinzler KW., "GLI3 Encodes a 190-kilodalton Protein with Multiple Regions of GLI Similarity". *Molecular and Cellular Biology*. 1990 Oct; 10(10): 5408-15. Taipale J., Beachy PA., "The Hedgehog and Wnt Signaling Pathways in Cancer". *Nature*. 2001 May;411(6835): 349-54. Rash BG., Grove EA., "Patterning the Dorsal Telencephalon: a Role for Sonic Hedgehog ?". *The Journal of Neuroscience*. 2007 Oct; 27(43): 11595-603.