

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Axin-2 in direct ELISAs. In this format, no cross-reactivity with recombinant human Axin-1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 354214
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Axin-2 Tyr550-Gln760 Accession # Q9Y2T1
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.

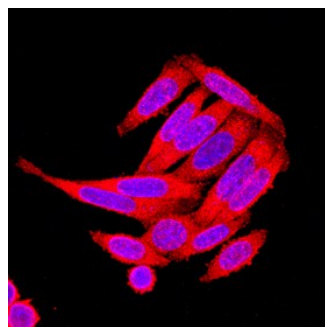
APPLICATIONS

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



Axin-2 in SW480 Human Cell Line. Axin-2 was detected in immersion fixed SW480 human colorectal adenocarcinoma cell line using Mouse Anti-Human Axin-2 Monoclonal Antibody (Catalog # MAB6078) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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

Axin-2, also known as Conductin, is a 95 kDa cytoplasmic protein that inhibits Wnt signaling and promotes epithelial-mesenchymal transition. Axin 2 binds to β-catenin, glycogen synthase kinase-3 (GSK-3β), and the tumor suppressor APC. Loss of Axin-2 function is linked to carcinogenesis as well as abnormal bone and tooth development. Within aa 550-760, human Axin-2 shares 82% aa sequence identity with mouse and rat Axin-2.