Gelsolin

UniProt
Function: Calcium-regulated, actin-modulating protein that binds to the plus (or barbed) ends of actin monomers or filaments, preventing monomer exchange (end-blocking or capping). It can promote the assembly of monomers into filaments (nucleation) as well as sever filaments already formed.
Subcellular location: Cytoplasm; Cytoskeleton. Secreted.
Tissue specificity: Phagocytic cells, platelets, fibroblasts, nonmuscle cells, smooth and skeletal muscle cells.

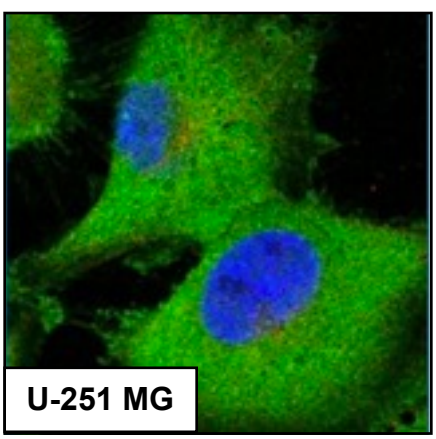
One antibody: Gelsolin-1 was tested and was approved for IHC. Gelsolin-1 was selected for full protein profiling.

Gelsolin-1 (CAB036009)

Immunohistochemistry

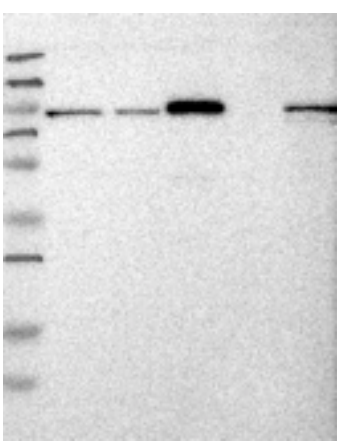
IHC protocol: HIER pH 6, Dilution 1:900
IHC test staining: Cytoplasmic staining in many tissues including macrophages.

IHC Annotators comments
Moderate cytoplasmic positivity was observed in bone marrow, macrophages, a subset of glial cells, kidney, islet cells and ducts in salivary gland. Endometrial glands were strongly stained. Most remaining normal tissues were weakly stained or negative.



Immunofluorescence

IF Overlay: antibody (green), anti-tubuline (red) and DAPI (blue)
IF Localisation: Staining of plasma membrane and cytoplasm in U-251 MG.
IF Validation: Subcellular localization supported by literature.



Western blot

WB Size markers (kDa): 230, 130, 95, 72, 56, 36, 28, 17, 11
WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)
WB Target weight (kDa): 86, 82, 81, 52, 29, 26, 23, 21
WB Validation: Supportive (Single band corresponding to the predicted size in kDa (+/-20%))