

Protein S100-A6, *syn. Calcyclin*

UniProt

Function: May function as calcium sensor and contribute to cellular calcium signaling (Potential). May function by interacting with other proteins and indirectly play a role in the reorganization of the actin cytoskeleton and in cell motility. Binds 2 calcium ions. Calcium binding is cooperative.

Subcellular location: Nucleus envelope. Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side.

Two antibodies: Calcyclin-1 and Calcyclin-2 were tested. Both antibodies were approved for IHC. Calcyclin-1 was selected for full protein profiling.

Calcyclin-2 (CAB040550)



Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:5000

IHC test staining: Cytoplasmic and nuclear staining in many tissues. High expression in, eg intestine, basal cells in prostate and leydig cells. Tumours seems to overexpress the protein.

Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11

WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)

WB Target weight (kDa): 10

WB Validation: Supportive - Band of predicted size in kDa (+/-20%) with additional bands present.

