14-3-3 protein sigma, *syn. Stratifin*

UniProt

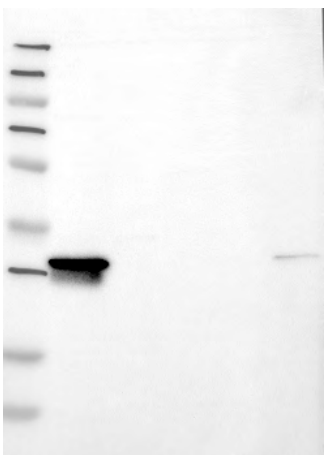
Function: Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathway. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. When bound to KRT17, regulates protein synthesis and epithelial cell growth by stimulating Akt/mTOR pathway (By similarity). p53-regulated inhibitor of G2/M progression.
Subcellular location: Cytoplasm. Nucleus (by similarity). Secreted. NOTE: May be secreted by a non-classical secretory pathway.
Tissue specificity: Present mainly in tissues enriched in stratified squamous keratinizing epithelium.

Three antibodies: SFN-1, SFN-2 and SFN-3 were tested. SFN-2 and SFN-3 were approved for IHC. SFN-2 was selected for full protein profiling.

SFN-3 (CAB040553)

Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:150
IHC test staining: Cytoplasmic staining in squamous epithelium of tonsil and skin.



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): 28
WB Validation: Supportive - High specificity (no other antigen with signal >15%).