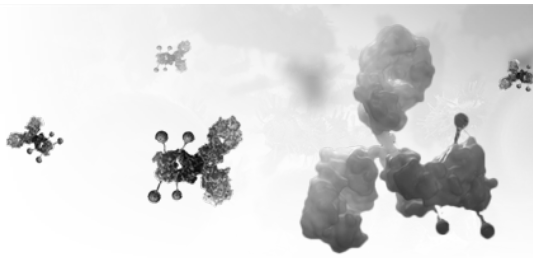

Rabbit Anti-14-3-3 sigma monoclonal antibody, clone TE3181 (CABT-L788)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	14-3-3 sigma
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
Clone	TE3181
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC
Molecular Weight	28 kDa
Cellular Localization	Cytoplasm, Nucleus, Secreted.
Positive Control	Human tonsil tissue, human breast carcinoma tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms, denoted 14-3-3 b, g, e, z, h, q and s, comprise this family of signaling intermediates. 14-3-3 s, also known as SFN, stratifin, HME1 or YWHAS, is a secreted adaptor protein that is involved in regulating both general and specific signaling pathways. Expressed predominately in stratified squamous keratinising epithelium, 14-3-3 s is able to bind and modify the activity of a large number of proteins, such as KRT17 (Keratin 17), through recognition of a phosphothreonine or phosphoserine motif. When bound to Keratin 17, for example, 14-3-3 s acts to stimulate the Akt/mTOR signaling pathway by upregulating protein synthesis and cell growth. 14-3-3 s also functions to positively mediate IGF-I-induced cell cycle progression and can bind to a variety of translation initiation factors, thus controlling mitotic translation. In response to tumor growth, 14-3-3 s positively regulates the tumor suppressor p53 and increases the rate of p53-regulated inhibition of G2/M cell cycle progression. Multiple isoforms of 14-3-3 s exist due to alternative splicing events.
Keywords	14 3 3 protein sigma;14-3-3 protein sigma;1433S_HUMAN;Epithelial cell marker protein 1;Er;HME 1;HME1;MGC143283;Mkrn3;Mme1;OTTHUMP00000004242;RP23 137L22.11;SFN;SFN protein;Stratifin;YWHAS antibody

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221