



Rabbit Anti-S-100 monoclonal antibody, clone KN62-42 (CABT-L936)

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

PRODUCT INFORMATION

Target	S100
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	KN62-42
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IP, IHC, FC
Cellular Localization	Cytoplasm. Nucleus.
Positive Control	Mouse heart, SH-SY5Y, human tonsil tissue, human kidney tissue, mouse brain tissue, mouse spinal cord tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

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

BACKGROUND

Introduction

The family of EF-hand type Ca²⁺-binding proteins includes calbindin (previously designated vitamin D-dependent Ca²⁺-binding protein), S-100 α and β , calgranulins A (also designated MRP8), B (also designated MRP14) and C (S-100 like proteins), and the parvalbumin family members, including parvalbumin α and parvalbumin β (also designated oncomodulin). The S-100 protein is involved in the regulation of cellular processes such as cell cycle progression and differentiation. Research also indicates that the S-100 protein may function in the activation of Ca²⁺ induced Ca²⁺ release, inhibition of microtubule assembly and inhibition of protein kinase C mediated phosphorylation. Two S-100 subunits, sharing 60% sequence identity, have been described as S-100 α chain and S-100 β chain. Three S-100 dimeric forms have been characterized, differing in their subunit composition of either two α chains, two β chains or one α and one β chain. S-100 localizes to the cytoplasm and nuclei of astrocytes, Schwann's cells, ependymomas and astroglomas. S-100 is also detected in almost all benign naevi, malignant melanocytic tumours and in Langerhans cells in the skin. Calbindin, S-100 proteins and parvalbumin proteins are each expressed in neural tissues. In addition, S-100 α and β are present in a variety of other tissues, and calbindin is present in intestine and kidney.

Keywords

NEF;Protein S100 B;Protein S100-B;S 100 calcium binding protein beta chain;S 100 protein beta chain;S-100 protein beta chain;S-100 protein subunit beta;S100;S100 calcium binding protein beta (neural);S100 calcium-binding protein B;S100 protein beta chain;S100B;S100B_HUMAN;S100beta antibody
