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36-3118: Anti-S100A2 / S100 Calcium Binding Protein A2 Monoclonal Antibody(Clone: CPTC-S100A2-2)

Clonality :	Monoclonal
Clone Name :	CPTC-S100A2-2
Application :	IHC,FACS,WB,IF
Reactivity :	Human
Gene :	S100A2
Gene ID :	6273
Uniprot ID :	P29034
Alternative Name :	CAN19; MGC111539; S100L
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant full-length human S100A2 protein

Description

S100A2 belongs to the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100A2 may function as a modulator against excess calcium accumulation in normal human mammary epithelial cells and also have a role in suppressing tumor cell growth. This protein may have a tumor suppressor function. Chromosomal rearrangements and altered expression of this gene have been implicated in breast cancer. Cytoplasmic overexpression may also be of prognostic significance when observed in oral cancer patients, and the S100A2 has also been identified as significantly down-regulated in gastric cancer.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Western Blot (1-2ug/ml); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

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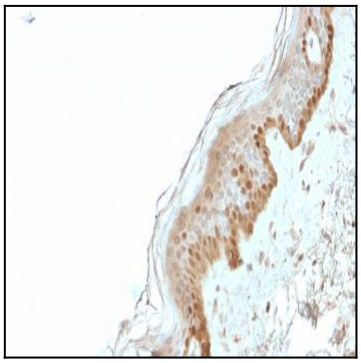


Fig. 1: Formalin-fixed, paraffin-embedded human Skin stained with S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2).

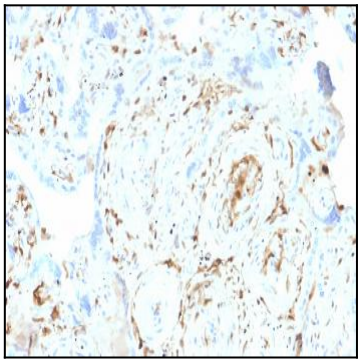


Fig. 2: Formalin-fixed, paraffin-embedded human Placenta stained with S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2).

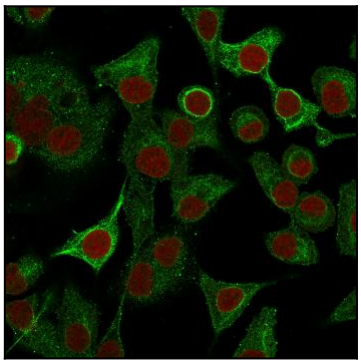


Fig. 3: Immunofluorescence Analysis of A549 cells labeling S100A2 with S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)

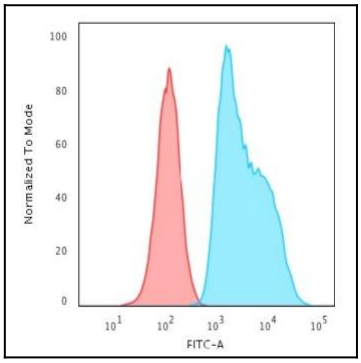


Fig. 4: Flow Cytometric Analysis of trypsinised HeLa cells. S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

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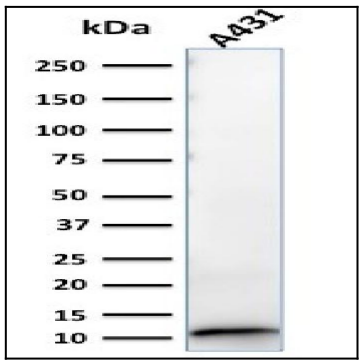


Fig. 5: Western Blot Analysis of A431 cell lysate using S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2)

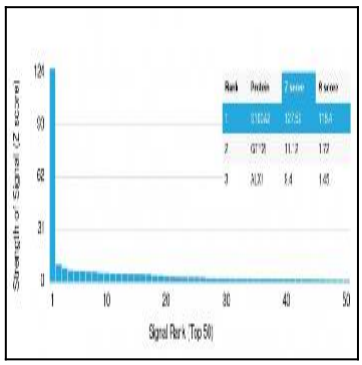


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using S100A2 Mouse Monoclonal Antibody (CPTC-S100A2-2).Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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