For research purposes only, not for human use

Product Data Sheet

Anti-Calnexin (Phospho-S583) Antibody

Catalog #	Source	Reactivity	Applications
CPA1129	Rabbit	H, M, R, B, D	WB, IH, IF/IC

Description	Rabbit polyclonal antibody to Calnexin (Phospho-S583)
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S583 of human Calnexin protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of Calnexin protein only when phosphorylated at S583.
Clonality	Polyclonal
Conjugation	
Form	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Dilution	WB (1/500 - 1/1000), IH (1/50 - 1/100), IF/IC (1/50 - 1/200)
Gene Symbol	CANX
Alternative Names	Calnexin; IP90; Major histocompatibility complex class I antigen-binding protein p88; p90
Entrez Gene	821 (Human); 12330 (Mouse); 29144 (Rat)
SwissProt	P27824 (Human); P35564 (Mouse); P35565 (Rat)
Storage/Stability	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference
Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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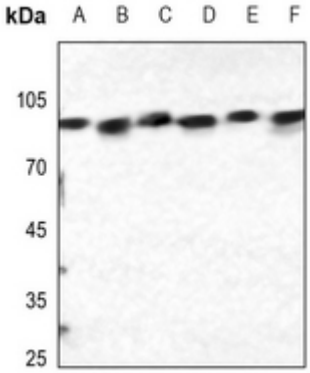
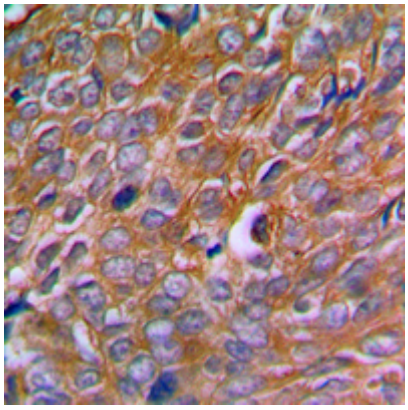
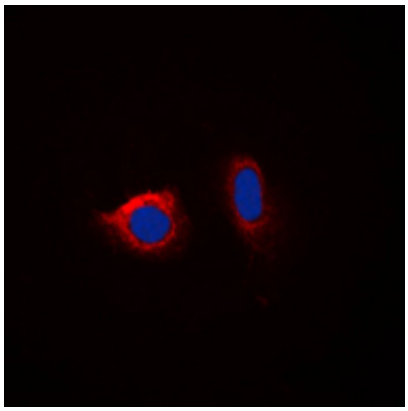


Western blot analysis of Calnexin (Phospho-S583) expression in HEK293T (A), SHSY5Y (B), A549 (C), mouse spleen (D), mouse lung (E), rat spleen (F), rat lung (G) whole cell lysates. (Predicted band size: 67 kD; Observed band size: 90 kD)



Immunohistochemical analysis of Calnexin (Phospho-S583) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Calnexin (Phospho-S583) staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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