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Product Data Sheet

Anti-IRS1 (Phospho-S312) Antibody

Catalog #	Source	Reactivity	Applications
CPA5091	Rabbit	H, M, R	WB, IF/IC, IP

Description	Rabbit polyclonal antibody to IRS1 (Phospho-S312)
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S312 of human IRS1 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of IRS1 protein only when phosphorylated at S312.
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), IF/IC (1/100 - 1/500), IP (1/10 - 1/100)
Gene Symbol	IRS1
Alternative Names	Insulin receptor substrate 1; IRS-1
Entrez Gene	3667 (Human); 16367 (Mouse); 25467 (Rat)
SwissProt	P35568 (Human); P35569 (Mouse); P35570 (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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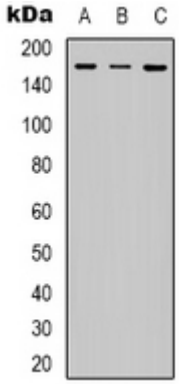
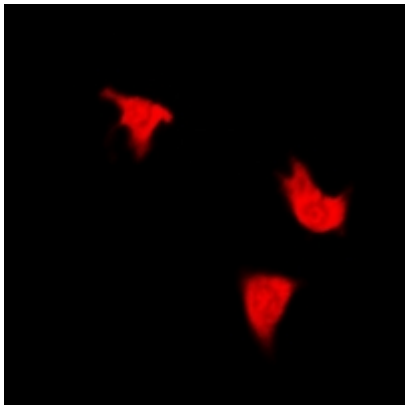


Western blot analysis of IRS1 (Phospho-S312) expression in HepG2 (A), Hela (B), mouse spleen (C) whole cell lysates. (Predicted band size: 131 kD; Observed band size: 180 kD)



Immunofluorescent analysis of IRS1 (Phospho-S312) staining in HepG2 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 hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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