

# GlycoScientific

## CERTIFICATE OF ANALYSIS

IRS2 (T1155) PAb

Cat. #: GS0014

Lot: A028

Package size: 0.2 ml

**Description** Rabbit polyclonal antibody to human insulin receptor substrate 2 (IRS2, NP\_003740) at the peptide region flanking threonine 1155 (T1155). GS0014 binds to a peptide region that is known to be modified at T1155 with O-linked N-acetylglucosamine (O-GlcNAc). GS0014 can bind to the peptide region regardless of the O-GlcNAc modification state of T1155 (see ELISA and Western blot application data. Amino acid sequence of the region flanking T1155 suggests cross-reactivity with IRS2 of multiple species including mouse, rat, chicken, hamster and primates.

**Tested applications** ELISA, Western blot.

**Target sequence** ETFSSTTTVTPVS

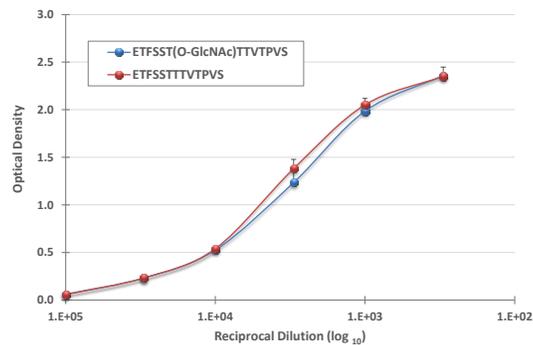
**Isotype** Mixed, predominantly IgG.

**Storage buffer** PBS, pH 7.2-7.5.

**Storage** Frozen (-20°C or lower). Store at 4°C when thawed or aliquot and refreeze. Avoid repeated freeze/thaw cycles.

### Example applications

**ELISA** ELISA plates were coated with the peptides indicated in the graph below, conjugated to BSA, and detected with dilutions of GS0014. The secondary antibody is a goat anti-rabbit whole IgG.



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**Western** Total cell lysates from HEK (human embryonic kidney cells) were separated by reducing SDS-PAGE. The first 2 panels were probed with IRS2 (T1155) PAb (GS0014) at a 1/1000 dilution and detected with a secondary antibody to rabbit IgG. The right panel was detected with a 3<sup>rd</sup> party monoclonal antibody (MAb). Panel 1 included a blocking peptide at 1 mg/ml that includes the sequence ETFSSTTTVTPVS (available as IRS2 (GlcNAC T1155) peptide, catalog number GS0017). Panel 2 included a blocking peptide at 1 mg/ml that includes the sequence ETFSST(O-GlcNAc)TTVTPVS (available as IRS2 (T1155) peptide, catalog number GS0016). The apparent molecular weight of IRS2 is approximately 110 kDa. The identities of the other bands are unknown.

