Revision 1

#23177 Store at -20C

OGT (D1D8Q) Rabbit mAb (HRP Conjugate)

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	110	Rabbit IgG	#O15294	8473

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

OGT (D1D8Q) Rabbit mAb (HRP Conjugate) recognizes endogenous levels of total OGT protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro546 of human OGT protein.

Product Description

This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated OGT (D1D8Q) Rabbit mAb #24083.

MW (kDa)	110

Background

O-GlcNAcylation is a post-translational modification where β-D-N-acetylglucosamine (GlcNAc) is covalently linked to cytoplasmic and nuclear proteins at serine or threonine residues (1,2). This modification is important in many cellular processes including metabolism, cell growth and morphogenesis, apoptosis, and transcription (2,3), and research studies have implicated this modification in cancer (1). The reversible protein modification by O-GlcNAc, which has been suggested to be a nutrient and stress sensor, is catalyzed by two highly conserved enzymes, O-GlcNAc transferase (OGT) and O-GlcNAcase (OGA) (4).

Background References

1. Comer, F.I. et al. (2001) *Anal Biochem* 293, 169-77.
2. Slawson, C. and Hart, G.W. (2011) *Nat Rev Cancer* 11, 678-84.
3. Capotosti, F. et al. (2011) *Cell* 144, 376-88.
4. Hart, G.W. et al. (2007) *Nature* 446, 1017-22.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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