Revision 3

Store at -20C

#45437

NY-ESO-1 (D1Q2U) Rabbit mAb

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC, FC-FP	H	Endogenous	20 (monomer), 40 (dimer)	Rabbit IgG	#P78358	246100

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Immunofluorescence (Immunocytochemistry)	1:1600
Flow Cytometry (Fixed/Permeabilized)	1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #75017.

Specificity/Sensitivity

NY-ESO-1 (D1Q2U) Rabbit mAb recognizes endogenous levels of total NY-ESO-1 protein. This antibody cross-reacts with NY-ESO-2/LAGE-1S.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NY-ESO-1 protein, isoform 1.

Background

Cancer/testis antigens (CTAs) are a family of more than 100 proteins whose normal expression is largely restricted to immune privileged germ cells of the testis, ovary, and trophoblast cells of the placenta. Although most normal somatic tissues are void of CTA expression, due to epigenetic silencing of gene expression, their expression is upregulated in a wide variety of human solid and liquid tumors (1,2). As such, CTAs have garnered much attention as attractive targets for a variety of immunotherapy-based approaches to selectively attack tumors (3).

New York esophageal squamous cell carcinoma-1 (NY-ESO-1) is an X-linked CTA and was first identified by serological analysis of cDNA expression libraries in esophageal carcinoma (SEREX) (4,5). Like other CTAs, NY-ESO-1 expression is repressed in normal somatic tissues but becomes derepressed in a variety of human cancer types, such as multiple myeloma, non-small cell lung carcinoma, liposarcoma, and melanoma (6,7). Although the biological function of NY-ESO-1 remains enigmatic, its tumor-restricted expression pattern and high degree of immunogenicity have positioned it as a prominent target of immunotherapy-based strategies for tumor eradication (8).

Background References

1. Caballero, O.L. and Chen, Y.T. (2009) *Cancer Sci* 100, 2014-21.
2. De Smet, C. et al. (1999) *Mol Cell Biol* 19, 7327-35.
3. Gjerstorff, M.F. et al. (2015) *Oncotarget* 6, 15772-87.
4. Chen, Y.T. et al. (1997) *Proc Natl Acad Sci U S A* 94, 1914-8.
5. Chen, Y.T. et al. (1997) *Cytogenet Cell Genet* 79, 237-40.
6. Esfandiary, A. and Ghafouri-Fard, S. (2015) *Immunotherapy* 7, 411-39.
7. Klar, A.S. et al. (2015) *PLoS One* 10, e0139221.
8. Gnjatic, S. et al. (2006) *Adv Cancer Res* 95, 1-30.

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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