

THRA/THRB Monoclonal Antibody (C3)

Product Details

Size	100 µL
Species Reactivity	Human
Published Species	Rat, Non-human primate, Hamster, Mouse, Human, Xenopus
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	C3
Conjugate	Unconjugated
Immunogen	Purified fragment of human TR beta-1 corresponding to residues 201-456.
Form	Liquid
Storage buffer	ascites
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325420

Applications	Tested	Dilution	Published
ChIP assay (ChIP)	-		2 Publications
Western Blot (WB)	✓	1:1,000	10 Publications
Immunoprecipitation (IP)	✓	Assay dependent	3 Publications
Gel Shift (GS)	✓	Assay dependent	1 Publication
Immunocytochemistry (ICC)	✓	1:20	1 Publication
Immunofluorescence (IF)	✓	1:20	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:20	

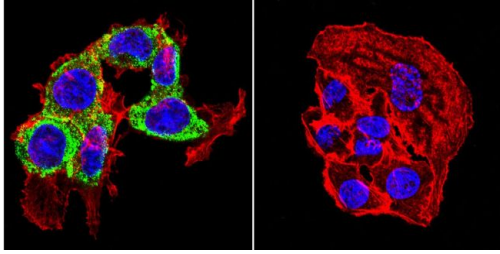
Product Specific Information

MA1-215 detects thyroid hormone receptor (TR) from human tissues. This antibody recognizes TR beta-1 and also cross-reacts with TR alpha-1.

MA1-215 has been successfully used in Western blot, IF, immunoprecipitation, and gel shift procedures. By Western blot, this antibody detects a 55 and a 52 kDa protein representing recombinant human TR beta-1 expressed in E. coli. MA1-215 immunoprecipitates 52 kDa and 55 kDa proteins, representing TR beta-1 and a 48 kDa protein representing TR alpha-1 expressed in E. coli.

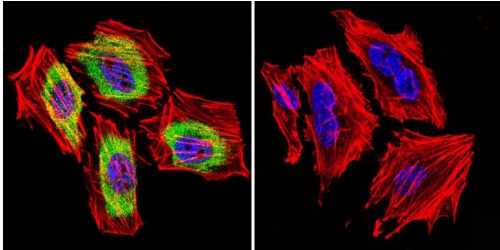
The MA1-215 immunogen is a purified fragment of human TR beta-1 corresponding to amino acid residues 201-456. This antibody recognizes an epitope in the hormone binding domain of hTR beta-1, amino acid residues 235-414. This sequence is conserved in hTR alpha-1.

Product Images For THRA/THRB Monoclonal Antibody (C3)



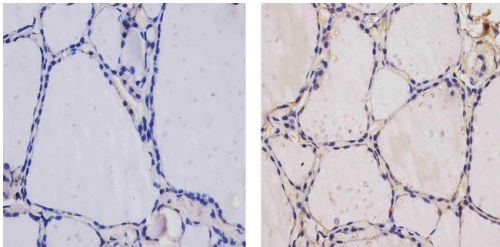
THRA/THRB Antibody (MA1-215) in IF

Immunofluorescent analysis of Thyroid Hormone Receptor in HepG2 Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Thyroid Hormone Receptor monoclonal antibody (Product # MA1-215) at a dilution of 1:20 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503). Thyroid Hormone Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



THRA/THRB Antibody (MA1-215) in IF

Immunofluorescent analysis of Thyroid Hormone Receptor in HeLa Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a Thyroid Hormone Receptor monoclonal antibody (Product # MA1-215) at a dilution of 1:20 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503). Thyroid Hormone Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



THRA/THRB Antibody (MA1-215) in IHC (P)

Immunohistochemistry analysis of Thyroid Hormone Receptor showing staining in the cytoplasm and weak staining in the nucleus of paraffin-embedded human thyroid tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a Thyroid Hormone Receptor Mouse Monoclonal Antibody (Product # MA1-215) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

[View more figures on thermofisher.com](#)

17 References

ChIP assay (2)

Nature communications

MKK6 controls T3-mediated browning of white adipose tissue.

"MA1-215 was used in Chromatin immunoprecipitation to demonstrate that MKK6 deletion in adipocytes increases white adipose tissue thermogenic capacity and this is a potential therapeutic strategy for obesity."

Authors: Matesanz N, Bernardo E, Acín-Pérez R, Manieri E, Pérez-Sieira S, Hernández-Cosido L, Montalvo-Romeral V, Mora A, Rodríguez E, Leiva-Vega L, Lechuga-Vieco AV, Ruiz-Cabello J, Torres JL, Crespo-Ruiz M, Centeno F, Álvarez CV, Marcos M, Enriquez JA, Nogueiras R, Sabio G

Species
Mouse

Dilution
Not Cited

Year
2017

Journal of the neurological sciences

Thyroid hormone-dependent epigenetic suppression of herpes simplex virus-1 gene expression and viral replication in differentiated neuroendocrine cells.

Authors: Figliozzi RW, Chen F, Balish M, Ajavon A, Hsia SV

Species
Human

Dilution
Not Cited

Year
2014

Western Blot (10)

Journal of the neurological sciences

Thyroid hormone-dependent epigenetic suppression of herpes simplex virus-1 gene expression and viral replication in differentiated neuroendocrine cells.

Authors: Figliozzi RW, Chen F, Balish M, Ajavon A, Hsia SV

Species
Human

Dilution
Not Cited

Year
2014

The Journal of biological chemistry

The p160 coactivator PAS-B motif stabilizes nuclear receptor binding and contributes to isoform-specific regulation by thyroid hormone receptors.

"MA1-215 was used in western blot to investigate the relationship between p160 coactivators and thyroid hormone receptors."

Authors: Privalsky ML, Lee S, Hahm JB, Young BM, Fong RN, Chan IH

Species
Human

Dilution
Not Cited

Year
2009

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More applications with references on thermofisher.com

IP (3) **GS (1)** **ICC (1)**

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