

# OCT4 Recombinant Rabbit Monoclonal Antibody (3H8L6)

## Product Details

Size	100 µg
Species	Human, Mouse
Published Species	Human
Expression System	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	3H8L6
Conjugate	Unconjugated
Immunogen	Protein corresponding to Human POU5F1 (aa 1-360)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2633031

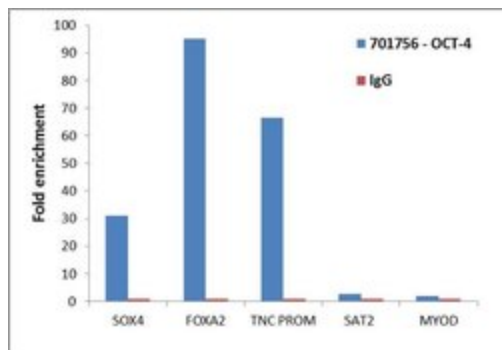
Applications	Tested Dilution	Publications
ChIP assay (ChIP)	2.5 µg x 10 <sup>6</sup> cells	-
Immunocytochemistry (ICC)	1-2 µg/mL	1 Publication
Immunofluorescence (IF)	1-2 µg/mL	-
Western Blot (WB)	1-2 µg/mL	-

## Product Specific Information

This antibody is predicted to react with Monkey, Goat, Cat and Horse

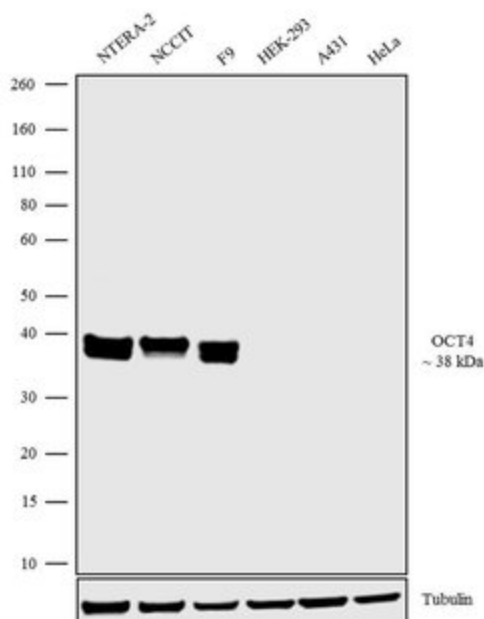
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

## Advanced Verification Data



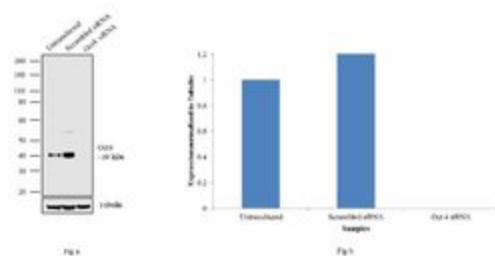
### OCT4 Antibody (701756)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-OCT4 Recombinant Rabbit Monoclonal Antibody (Product # 701756) with relevant positive (SOX4, FOXA2, TNC promoter) and negative (SAT2, MYOD) target genes/binding sites. Relative expression validation info.



### OCT4 Antibody (701756)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Expression of OCT4 was observed specifically in NTERA-2, NCCIT and F9, cell lines of embryonic origin, but not in the somatic tumor cell lines HEK-293, HeLa and A431, using Anti-OCT4 Recombinant Rabbit Monoclonal Antibody (Product # 701756) in Western blot. OCT4 is involved in the maintenance of embryonic stem cell pluripotency, and its expression is lost at the blastocyst stage. Relative expression validation info.



### OCT4 Antibody (701756)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. NTERA-2 cells were transfected with OCT4 siRNA and loss of signal was observed in Western Blot using Anti-OCT4 Monoclonal Antibody (Product # 701756). Knockdown validation info.

View more figures on [thermofisher.com](https://www.thermofisher.com)

## Immunocytochemistry (1)

### Stem cell research

#### Generation of two induced pluripotent stem cell lines (NHLBli001-A and NHLBli001-B) from a healthy Caucasian female volunteer with normal cardiac function.

"701756 was used in Immunocytochemistry-immunofluorescence to develop two wild-type human-derived induced pluripotent cell lines from a PBMC sample of a patient with normal cardiac function."

Authors: Patterson K,Beers J,Linask KL,Lin Y,Hassanzadeh S,Sack MN,Zou J

**Species**  
Human

**Dilution**  
1:400

**Year**  
2019

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