

**Anti-Oxytocin Receptor Rabbit Monoclonal Antibody**  
**Catalog # ABO15661****Specification**

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**Anti-Oxytocin Receptor Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P30559</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Oxytocin Receptor Rabbit Monoclonal Antibody . Tested in WB, IHC application. This antibody reacts with Human, Mouse, Rat.

**Anti-Oxytocin Receptor Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 5021

**Other Names**

Oxytocin receptor, OT-R, OXTR

**Calculated MW**

43 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Oxytocin Receptor

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Oxytocin Receptor Rabbit Monoclonal Antibody - Protein Information**

**Name** OXTR

**Function**

Receptor for oxytocin. The activity of this receptor is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system.

**Cellular Location**

Cell membrane; Multi-pass membrane protein.

**Anti-Oxytocin Receptor Rabbit Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

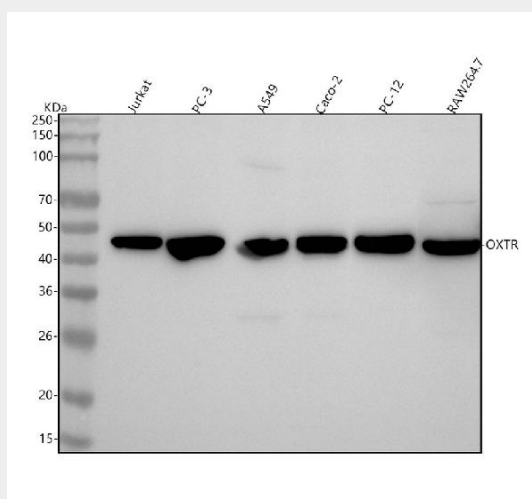
**Anti-Oxytocin Receptor Rabbit Monoclonal Antibody - Images**

Figure 1. Western blot analysis of OXTR using anti-OXTR antibody (M01566).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Jurkat whole cell lysates,

Lane 2: human PC-3 whole cell lysates,

Lane 3: human A549 whole cell lysates,

Lane 4: human Caco-2 whole cell lysates,

Lane 5: rat PC-12 whole cell lysates,

Lane 6: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-OXTR antigen affinity purified monoclonal antibody (Catalog # M01566) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog #

EK1002) with Tanon 5200 system. A specific band was detected for OXTR at approximately 43 kDa. The expected band size for OXTR is at 43 kDa.

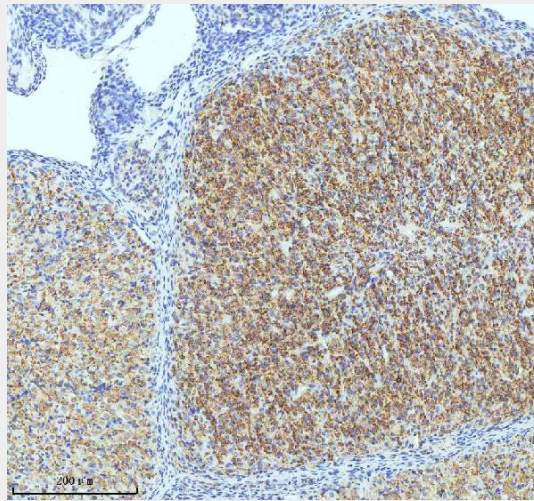


Figure 2. IHC analysis of OXTR using anti-OXTR antibody (M01566).

OXTR was detected in a paraffin-embedded section of rat ovary tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-OXTR Antibody (M01566) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

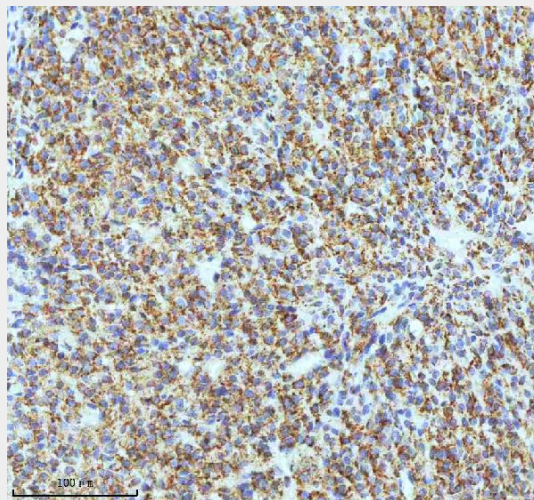


Figure 3. IHC analysis of OXTR using anti-OXTR antibody (M01566).

OXTR was detected in a paraffin-embedded section of rat ovary tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-OXTR Antibody (M01566) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.