

# Anti human TR4 mouse monoclonal antibody

TR4: Tasticular receptor 4

**Code No** PP-H0107B-00

**Clone No.** H0107B

**Lot.** A-1

**Concentration** 1 mg/mL

**Volume** 100 uL

**Ig Class** G2a

**Description** TR4(TAK1, NR2C2) is a member of orphan nuclear receptor. TR4 was originally cloned from lymphoblastoma Raji cells or mouse brain cDNA library. No ligand has been reported. Northern blot shows TR4 is transcribed as a 9kb mRNA in many tissues and as a 2.8kb mRNA in testis, mainly in spermatocytes. TR4 has two isoforms called TR4alpha1 and TR4 alpha2, which differ in 19 amino acids coded by two separate exons. Both products translated from 9kb transcript are ubiquitously expressed. Since TR4 binds to the same elements for the RAR-RXR or TR-RXR heterodimers, TR4 may have an inhibitory effect for retinoic-acid mediated transactivation.

**Nomenclature** NR2C2

**Genbank** L27586

**Origin** Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human TR4 (23-52 aa).

**Specificity** This antibody specifically recognizes human TR4 and cross reacts with mouse and rat TR4.

**Purification** Ammonium sulfate fractionation

**Formulation** Physiological saline with 0.1% NaN<sub>3</sub> as a preservative.

## Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

**Western Blot** 2 ug/mL

**Non reducing Western Blot** Not yet tested

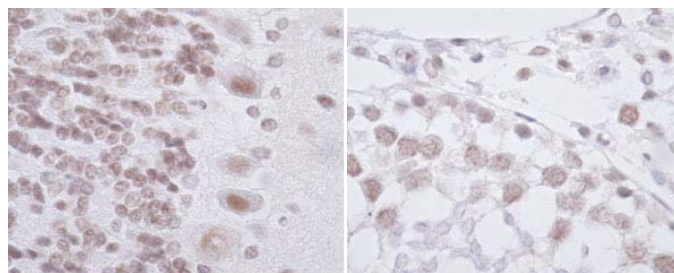
**ELISA** 0.1 ug/mL (A450=0.2)

**Immunoprecipitation** Decide by use

**Supershift Assay** Not yet tested

**Chromatin immunoprecipitation** Not yet tested

**Immunohistochemistry** 10µg/mL



Rat cerebellum  
Purkinje cells and granular cells

Rat testis  
primary and secondary  
spermatocytes

**Storage** Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

## Reference

**Notes** Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

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**MADE IN JAPAN**

Aug 29, 2006

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Clone No. H0107B

Lot. A-1

濃度 1mg/mL

容量 100 $\mu$ L

Ig class G2a

Nomenclature NR2C2

Genebank L27586

**由来** ヒトTR4(23-52 aa)のBaculovirus発現物を免疫したBALB/cマウスの脾臓細胞と、マウスミエローマ細胞(NS-1)を融合して得たハイブリドーマを、BALB/cマウスに接種して得られた腹水。

**特異性** ヒトTR4と特異的に反応する。マウスおよびラットTR4と交差反応する。

**精製法** 硫酸塩析法

**溶媒** 生理的食塩水(防腐剤として0.1% NaN<sub>3</sub>添加)

**Application** 使用濃度は実験にあわせて至適化が必要です。

**Western Blot** 可  
参考使用濃度 2  $\mu$ g/mL

**非還元 Western Blot** 未検討  
参考使用濃度 -

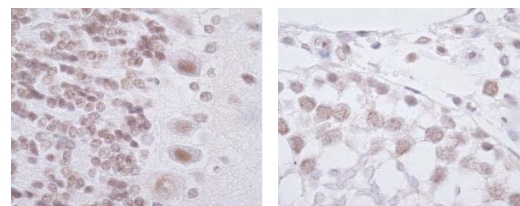
**ELISA** 可  
参考使用濃度 0.1  $\mu$ g/mL (A450=0.2)

**免疫沈降** 可  
参考使用濃度 適宜調製してください

**Supershift Assay** 未検討  
参考使用濃度 -

**クロマチン免疫沈降** 未検討  
参考使用濃度 -

**免疫染色** 可  
参考使用濃度 10  $\mu$ g/mL



ラット 小脳  
ブルキンエ細胞・顆粒細胞

ラット 精巣  
精母細胞・精娘細胞

**保存方法** 1ヶ月程度の保存の場合は、2~8 $^{\circ}$ Cで保存可能です。長期保存の場合は、抗体を小分けした上で、-20 $^{\circ}$ C以下での保存をお勧めします。また、凍結融解を繰り返すと、抗体が劣化し、本来の性能が得られない場合があるため、お避けください。

## 参考文献

**備考** 溶媒に含まれるNaN<sub>3</sub>は、鉛や銅と反応し爆発性化合物を形成する恐れがあります。廃棄の際には大量の水と一緒に希釈して廃棄してください。

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