

# Anti-PAT4 [PAT4/157/D10]

**Catalogue number:** 152744

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Helen Turley ; Deborah Goberdhan

**Institute:** University of Oxford

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-PAT4 [PAT4/157/D10]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** The anti-PAT4 [PAT-4/157/D10] antibody is a highly specific mouse monoclonal antibody against PAT4. Members of the proton-assisted amino-acid transporter (PAT) or solute-linked carrier 36 (SLC36) family have been identified as positive regulators of growth and mTORC1 signalling in flies. These effects were shown to be conserved by characterisation of the two ubiquitously transcribed human PATs, PAT1 (SLC36A1) and PAT4 (SLC36A4). PAT4 is upregulated in aggressive forms of colorectal cancer and a possible biomarker.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Antigenic amino acid sequence within the N-terminus of PAT4 (REELDMDVMRPLINE-C).

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** 786-O human renal cancer cells

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** PAT4 (SLC36A4)

**Target alternate names:**

**Target background:** The anti-PAT4 [PAT-4/157/D10] antibody is a highly specific mouse monoclonal antibody against PAT4. Members of the proton-assisted amino-acid transporter (PAT) or solute-linked carrier 36 (SLC36) family have been identified as positive regulators of growth and mTORC1 signalling in flies. These effects were shown to be conserved by characterisation of the two ubiquitously transcribed human PATs, PAT1 (SLC36A1) and PAT4 (SLC36A4). PAT4 is upregulated in aggressive forms of colorectal cancer and a possible biomarker.

**Molecular weight:** ~ 60 kDa

**Ic50:**

## Applications

**Application:** ELISA ; IHC ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 0.9-1.1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Fan et al. 2015. Oncogene. :. PMID: 26434594. ; PAT4 levels control amino-acid sensitivity of rapamycin-resistant mTORC1 from the Golgi and affect clinical outcome in colorectal cancer.

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