

# FOXQ1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant FOXQ1.

Catalog # AT2105a

## Product Information

---

|                   |                           |
|-------------------|---------------------------|
| Application       | E                         |
| Primary Accession | <a href="#">Q9C009</a>    |
| Other Accession   | <a href="#">NM_033260</a> |
| Reactivity        | Human                     |
| Host              | mouse                     |
| Clonality         | monoclonal                |
| Isotype           | IgG2a Kappa               |
| Clone Names       | 4D9                       |
| Calculated MW     | 41526                     |

## Additional Information

---

|                    |                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 94234                                                                                                                      |
| Other Names        | Forkhead box protein Q1, HNF-3/forkhead-like protein 1, HFH-1, Hepatocyte nuclear factor 3 forkhead homolog 1, FOXQ1, HFH1 |
| Target/Specificity | FOXQ1 (NP_150285, 110 a.a. ~ 219 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.         |
| Dilution           | E~~N/A                                                                                                                     |
| Format             | Clear, colorless solution in phosphate buffered saline, pH 7.2 .                                                           |
| Storage            | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                   |
| Precautions        | FOXQ1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.        |

## Background

---

FOXQ1 is a member of the FOX gene family, which is characterized by a conserved 110-amino acid DNA-binding motif called the forkhead or winged helix domain. FOX genes are involved in embryonic development, cell cycle regulation, tissue-specific gene expression, cell signaling, and tumorigenesis (Bieller et al., 2001 [PubMed 11747606]).

## References

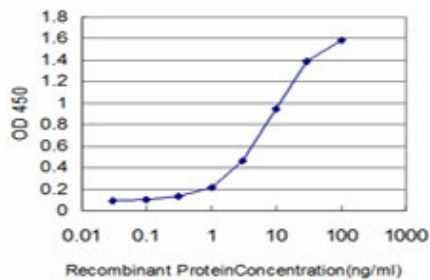
---

FOXQ1 is overexpressed in colorectal cancer and enhances tumorigenicity and tumor growth. Kaneda H, et al. Cancer Res, 2010 Mar 1. PMID 20145154. Atrogin-1, MuRF1, and FoxO, as well as phosphorylated

GSK-3 $\beta$  and 4E-BP1 are reduced in skeletal muscle of chronic spinal cord-injured patients. Løger B, et al. Muscle Nerve, 2009 Jul. PMID 19533653. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932. Transforming growth factor- $\beta$  2 is a transcriptional target for Akt/protein kinase B via forkhead transcription factor. Samatar AA, et al. J Biol Chem, 2002 Aug 2. PMID 12011061.

## Images

---



Detection limit for recombinant GST tagged FOXQ1 is approximately 0.3 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.