

# FH fl/fl Cell Line

**Catalogue number:** 153291

**Sub-type:**

**Images:**

## Contributor

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**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** FH fl/fl Cell Line

**Alternate name:** Fumarate hydratase, FH, fumarase, Fh1, Hereditary leiomyomatosis and renal cell cancer, HLRCC

**Class:**

**Conjugate:**

**Description:** Fumarate hydratase which can be found in either a mitochondrial or cytosolic form - is an enzyme that catalyzes the reversible hydration and dehydration of fumarate to malate. Signal sequences located in the protein dictate the subcellular location of each FH isoenzyme. The cytosolic form is involved in the metabolism of amino acids and fumarate and the mitochondrial form is involved in the Krebs Cycle (tricarboxylic acid cycle or the citric acid cycle). Germline mutations of FH are responsible for hereditary leiomyomatosis and renal-cell cancer (HLRCC)<sup>1</sup>.

**Purpose:**

**Parental cell:**

**Organism:** Mouse

**Tissue:** Kidney

**Model:** Conditional KO

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Fumarate Hydratase

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:**

## Handling

**Format:** Frozen

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:** Liquid Nitrogen

**Shipping conditions:** Dry ice

## Related tools

**Related tools:** FH-/- CL 1 Cell Line ; FH-/- CL 19 Cell Line

## References

**References:** Frezza et al. 2011. Nature. 477(7363):225-8. PMID: 21849978. ; Haem oxygenase is synthetically lethal with the tumour suppressor fumarate hydratase. ; Pollard et al. 2007. Cancer Cell. 11(4):311-9. PMID: 17418408. ; Targeted inactivation of fh1 causes proliferative renal cyst development and activation of the hypoxia pathway.

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