bs-13227R

# [ Primary Antibody ]

# BIOSS ANTIBODIES www.bioss.com.cn

# FUNDC1 Rabbit pAb

sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

SWISS: Q9DB70

Target: FUNDC1

**Purification:** affinity purified by Protein A

Concentration: 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

Background: FUNDC1 is a 155 amino acid protein belonging to the FUN14 family.

The gene encoding FUNDC1 maps to human chromosome Xp11.3 and mouse chromosome X A1.2. The X and Y chromosomes are the human sex chromosomes. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. The combination of an X and Y chromosome lead to normal male development while two copies of X lead to normal female development. More than one copy of the X chromosome with a Y chromosome causes Klinefelter's syndrome. A single copy of X alone leads to Turner's syndrome. More than 2 copies of the X chromosome, in the absence of a Y chromosome, is known as Triple X syndrome. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more

frequently as males carry a single X chromosome.

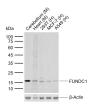
**Applications: WB** (1:300-800)

Reactivity: Human, Mouse, Rat

Predicted MW.: 17 kDa

Subcellular Location: Cytoplasm

## VALIDATION IMAGES



Sample: Lane 1: Mouse Cerebellum tissue lysates Lane 2: Mouse Heart tissue lysates Lane 3: Human 293T cell lysates Lane 4: Human MCF-7 cell lysates Lane 5: Human A549 cell lysates Primary: Anti-FUNDC1 (bs-13227R) at 1/800 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kDa Observed band size: 17 kDa

### — SELECTED CITATIONS —

- [IF=9.8] Jian Li. et al. FUNDC1-mediated mitophagy triggered by mitochondrial ROS is partially involved in 1-nitropyrene-evoked placental progesterone synthesis inhibition and intrauterine growth retardation in mice. SCI TOTAL ENVIRON. 2024 Jan;908:168383 WB; Human. 37951264
- [IF=8.2] Sen Zeng. et al. Role of OGDH in Atophagy-IRF3-IFN-β pathway during classical swine fever virus infection. INT J BIOL MACROMOL. 2023 Sep;249:126443 WB ; Pig. 37604413
- [IF=7.2] Lan Gao. et al. c-FLIP Protects Cardiac Microcirculation in Sepsis-Induced Myocardial Dysfunction Via FUNDC1-Mediated Regulation of Mitochondrial Autophagy. JACC-BASIC TRANSL SC. 2025 May;: IF; Rat. 40372306

- [IF=4.011] Xu G et al. Fundc1 is necessary for proper body axis formation during embryogenesis in zebrafish. Sci Rep. 2019 Dec 11;9(1):18910. WB ;grass carp&Human. 31827208
   [IF=3.3] Tang Lihua. et al. FUNDC1 predicts Poor Prognosis and promotes Progression and Chemoresistance in
- [IF=3.3] Tang Linua. et al. FUNDC1 predicts Poor Prognosis and promotes Progression and Chemoresistance in Endometrial Carcinoma. J CANCER. 2024 Oct;15(20):6490-6504 IHC; Human. 10.7150/jca.96877