



# Recombinant Protein Technical Manual

## Recombinant Human CLIC2 Protein (His Tag)

RPES0509

### Product Data:

**Product SKU:** RPES0509

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** O15247

### Protein Information:

**Molecular Mass:** 30.5 kDa

**AP Molecular Mass:** 32 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, 1mM DTT, 20% Glycerol, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Chloride Intracellular Channel Protein 2; XAP121; CLIC2

## Immunogen Information:

**Sequence:** Met 1-Ser247

## Background:

Chloride Intracellular Channel Protein 2 (CLIC2) is a critical component of all living cells; it regulates cellular traffic of Chloride ion and it can be inserted into membranes and form chloride ion channels. Membrane insertion seems to be redox-regulated and may occur only under oxidizing conditions, channel activity depends on the pH. CLIC2 is involved in regulating membrane potential and organic solute transport. CLIC2 modulates the activity of RYR2 and inhibits Calcium influx. CLIC2 can be detected in the adult brain, liver, lung, heart, stomach, spleen and testis. It is expressed in fetal liver and adult skeletal muscle. CLIC2 is a potential candidate for one of many diseases linked to Xq28.