

## SAMPLE PREPARATION

### PROTEIN EXTRACTION

- Isolate sPCA from porcine eye globes
- Homogenize samples with ZrO<sub>2</sub> beads with tissue protein extraction reagent
- Separate supernatant from pellet
- Digest and extract non-soluble proteins from pellet with extraction buffer 2A of the transmembrane protein extraction kit

## LC-ESI-MS/MS-BASED PROTEOMICS

### SAMPLE CLEANING

Buffer exchange with centrifugal filter devices with 3 kDa cutoff

### PROTEIN MEASUREMENT

BCA kit



### 1DE

- 4-12% Bis-Tris gel
  - Colloidal Blue staining
- ↓
- In-gel trypsin digestion
  - Peptide purification
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### LC-ESI-MS/MS-analysis