

## MATERIAL DATA SHEET

### GST Ubiquitin Mutant K48R

#### Cat. # UBM-GK48R

Mutation of lysine 48 to arginine renders GST ubiquitin (Ub) unable to form poly-Ub chains via lysine 48 linkages with other Ub molecules. Ub GK48R with an N-terminal GST-tag (glutathione S-transferase). GST-Ub allows for glutathione affinity purification of ubiquitinated molecules and allows for immunodetection of conjugates using GST antibodies. Ub GK48R can form an E1-catalyzed active thioester at the C-terminus allowing the molecule to be transferred to the lysines of substrate proteins (monoubiquitination). Ideal for the reduction in poly-Ub chain length/conjugation rates and determining if poly-Ub chains are K48 linked.

#### Product Information

**MW:** 35 kDa

**Concentration:** 2mg/mL

**Buffer:** 50mM PBS, pH7.0, 150mM NaCl

**Solubility:** Aqueous solutions up to 10 mg/ml

**Purity:** > 95% by SDS-PAGE

**Storage:** Store at -20°C. Avoid multiple **FREEZE/THAW** cycles.