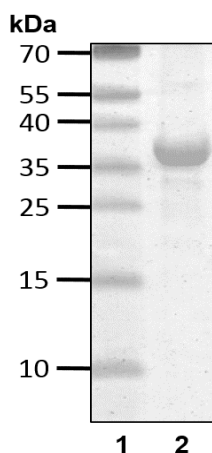


# GST-Ubiquitin (I44A)

Cat. # E1920

**Also Known as:** GST-Ub (I44A)  
**NCBI Reference:** N/A  
**MW (no tag):** 8.5 kDa  
**Species:** Human  
**Source:** Bacterial recombinant  
**Tag:** GST  
**Stock Buffer:** 20 mM Tris, pH7.6 at 4 °C, 150 mM NaCl, 2 mM βME, 10% Glycerol  
**Concentration:** See tube label  
**Quality Assurance:** >95% by SDS-PAGE

## Image



Coomassie-stained SDS-PAGE  
Lane 1: Molecular weight markers  
Lane 2: 5 μg purified GST-Ubiquitin (I44A)

**Description:** Ubiquitin (Ub) is a 76 amino acid protein widely expressed in the cytoplasmic and nucleus of cells. Ub is posttranslationally conjugated to proteins by the E1, E2, E3 protein ubiquitination cascade. Ub can be conjugated on proteins as monoUb or polyUb chains. Protein ubiquitination plays both proteolytic and nonproteolytic functions. Usually, polyubiquitinated proteins are targeted to the 26S proteasome for proteolysis. Typical concentration to support in vitro ubiquitination is 50-100 μM. I44 is one of the key residues of the hydrophobic patch on Ub surface.

The I44A mutant inhibits the interactions of Ub with many Ub-binding domains.

**Storage:** Store at -80°C; avoid multiple freeze-thaw cycles

**Note:** N/A

**Literature:**

1. Hershko A, *et al.* (1980) Proc Natl Acad Sci USA 77(4), 1783 – 1786.
2. Pickart CM (1997) FASEB 11(13), 1055 – 1066.
3. Hershko A, *et al.* (1998) Ann Rev Biochem 67, 425 – 479.
4. Jiang X, *et al.* (2012) Nature Reviews Immunology 12, 35 – 48.
5. Bremm A, *et al.* (2012) Methods Mol Biol 832, 291 – 228.

