

MATERIAL DATA SHEET

His₆-HR6B/UBE2B, human recombinant

Cat. # E2-613

The human HR6A and HR6B proteins share about 95% amino acid sequence identity with each other and about 70% with yeast counterparts, but notably lack the acidic C-terminal domain found in *S. cerevisiae* RAD6. The RAD6 pathway is essential to post-replication repair of DNA and damage-induced mutagenesis in eukaryotic cells. hHR6 protein expression is cell cycle regulated and function with RAD5 and RAD18 RING-finger proteins. The human proteins function similar to the yeast homologs, and may have additional roles in chromatin remodeling and spermatogenesis. This protein has an N-terminal His₆-tag, Accession NP_003328.

Product Information

Quantity:	X µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 7.8, 50 mM NaCl, 10% glycerol, 1 mM DTT. Concentration will vary with Lot#
MW:	20 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration to support conjugation <i>in vitro</i> is 100 nM-1 µM depending on conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	<p>Fu Y., <i>et al.</i> (2008) <i>Cell</i>. 133:601-611 Kao C-F., <i>et al.</i> (2004) <i>Genes & Dev.</i> 18:184-195 Koken M.H., <i>et al.</i> (1991) <i>Proc. Natl. Acad. Sci.</i> 88:8865-8869 Koken M.H., <i>et al.</i> (1996) <i>Dev. Biol.</i> 173:119-132 Kunapuli P., <i>et al.</i> (2003) <i>Oncogene</i>. 22:3417-3423 Lyakhovich A., <i>et al.</i> (2004) <i>Oncogene</i>. 23:3097-3106 Madura K., <i>et al.</i> (1990) <i>Nuc. Acid. Res.</i> 18:771-778 Tsuji Y., <i>et al.</i> (2008) <i>Genes Cells</i>. 13:343-354 Ulrich H.D., <i>et al.</i> (2000) <i>EMBO J.</i> 19 :3388-3397 Xin H., <i>et al.</i> (2000) <i>Nuc. Acid. Res.</i> 28:2847-2854</p>
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