

## LIG4 抗原（重组蛋白）

中文名称：LIG4 抗原（重组蛋白）

英文名称：LIG4 Antigen (Recombinant Protein)

别名：DNA ligase 4; LIG4S

相关类别：抗原

储存：冷冻（-20℃）

概述：

Fusion protein corresponding to a region derived from 712-911 amino acids of human LIG4

技术规格：

<b>Full name:</b>	DNA ligase 4
<b>Synonyms:</b>	LIG4S
<b>Swissprot:</b>	P49917
<b>Gene Accession:</b>	BC037491
<b>Purity:</b>	>85%, as determined by Coomassie blue stained SDS-PAGE
<b>Expression system:</b>	Escherichia coli
<b>Tags:</b>	His tag C-Terminus, GST tag N-Terminus
<b>Background:</b>	The protein encoded by this gene is a DNA ligase that joins single-strand breaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. This protein is essential for V(D)J recombination and DNA double-strand break (DSB) repair through nonhomologous end joining (NHEJ). This protein forms a complex with the X-ray repair cross complementing protein 4 (XRCC4), and further interacts with the DNA-dependent protein kinase (D

NA-PK). Both XRCC4 and DNA-PK are known to be required for NHEJ. The crystal structure of the complex formed by this protein and XRCC4 has been resolved. Defects in this gene are the cause of LIG4 syndrome. Alternatively spliced transcript variants encoding the same protein have been observed.