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## Product Datasheet

### PRIM1 (DNA Primase Small Subunit, Primase, DNA, Polypeptide 1 (49kD)), Rabbit USB-489353

Article Name	PRIM1 (DNA Primase Small Subunit, Primase, DNA, Polypeptide 1 (49kD)), Rabbit
Biozol Catalog Number	USB-489353
Supplier Catalog Number	489353
Alternative Catalog Number	USB-489353-100
Manufacturer	US Biological
Host	Rabbit
Category	Antikörper
Application	WB
Immunogen	Synthetic peptide corresponding to the N-terminal region of human PRIM1
Product Description	The replication of DNA in eukaryotic cells is carried out by a complex chromosomal replication apparatus, in which DNA polymerase alpha and primase are two key enzymatic components. Primase, which is a heterodimer of a small subunit and a large subunit, is responsible for initiating DNA synthesis at the replication fork. The small subunit is a heterodimer of PRIM1 and PRIM2, and the large subunit is a heterodimer of PRIM3 and PRIM4. PRIM1 is a 49kD protein that contains a nucleic acid binding domain and a domain involved in dimerization. It is expressed in a wide range of tissues and cell types, and its expression is upregulated during cell division. PRIM1 is a key component of the replication fork, and its absence can lead to replication叉 problems and cell death. PRIM1 is also involved in the regulation of gene expression and cell cycle control. It is a target for various drugs and therapeutic agents, and its study is an active area of research in molecular biology and medicine.
NCBI	<a href="#">000937</a>
UniProt	<a href="#">P49642</a>
Purity	Purified by Protein A affinity chromatography.
Form	Supplied as a liquid in PBS, 2% sucrose, 0.09% sodium azide.