



Anti-SPR (aa 164-260) polyclonal antibody (DPAB-DC2955)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes an aldo-keto reductase that catalyzes the NADPH-dependent reduction of pteridine derivatives and is important in the biosynthesis of tetrahydrobiopterin (BH4). Mutations in this gene result in DOPA-responsive dystonia due to sepiapterin reductase deficiency. A pseudogene has been identified on chromosome 1.
Immunogen	SPR (NP_003115, 164 a.a. ~ 260 a.a) partial recombinant protein with GST tag. The sequence is FKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGLDMDQLARETSVDPDMRKGLQ ELKAKGKLVDCVSAQKLLSLEKDEFKSGAHVDFYD
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [SPR sepiapterin reductase \(7,8-dihydrobiopterin:NADP+ oxidoreductase\) \[Homo sapiens](#)

[\(human\)\]](#)

Official Symbol	SPR
Synonyms	SPR; sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase); SDR38C1; sepiapterin reductase; short chain dehydrogenase/reductase family 38C, member 1;
Entrez Gene ID	6697
Protein Refseq	NP_003115
UniProt ID	P35270
Chromosome Location	2p14-p12
Pathway	Folate biosynthesis; Metabolism; Tetrahydrobiopterin (BH4) synthesis, recycling, salvage and regulation; tetrahydrobiopterin biosynthesis I
Function	NADP binding; aldo-keto reductase (NADP) activity; sepiapterin reductase activity;