

Product datasheet for **AP53918PU-N**

SIM1 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/1000. Western Blot: 1/100-1/500. Immunohistochemistry on Paraffin Sections: 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of Human SIM1
Specificity:	This antibody recognizes Human SIM1 (N-term).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column, followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	single-minded family bHLH transcription factor 1
Database Link:	Entrez Gene 6492 Human P81133



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Background:

SIM1 and SIM2 genes are Drosophila single-minded (sim) gene homologs. SIM1 transcript was detected only in fetal kidney out of various adult and fetal tissues tested. Since the sim gene plays an important role in Drosophila development and has peak levels of expression during the period of neurogenesis, it was proposed that the human SIM gene is a candidate for involvement in certain dysmorphic features (particularly the facial and skull characteristics), abnormalities of brain development, and/or mental retardation of Down syndrome.

Synonyms:

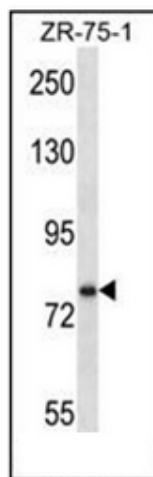
BHLHE14

Note:

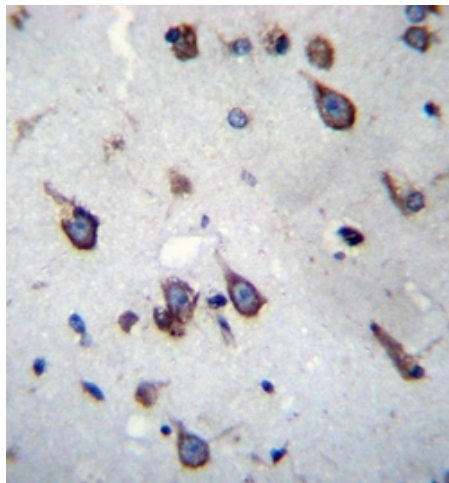
Molecular Weight: 85515 Da

Protein Families:

Druggable Genome, Transcription Factors

Product images:


Western blot analysis of SIM1 Antibody (N-term) in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the SIM1 antibody detected the SIM1 protein (arrow).



Formalin fixed, paraffin embedded human brain tissue stained with SIM1 Antibody (N-term) followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SIM1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.