

Product datasheet

Recombinant Human Otx2 protein ab200294

1 References

Description

Product name	Recombinant Human Otx2 protein
Purity	> 90 % SDS-PAGE. This protein was refolded and chromatographically purified
Expression system	Escherichia coli
Accession	<u>P32243-2</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	35 kDa including tags
Amino acids	2 to 297
Tags	His-T7 tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab200294** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituent: 0.32% Tris HCl Contains NaCl, KCl, EDTA, Sucrose and DTT.
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General Info

Function	Probably plays a role in the development of the brain and the sense organs. Can bind to the BCD target sequence (BTS): 5'-TCTAATCCC-3'.
Tissue specificity	Expressed in brain.
Involvement in disease	Defects in OTX2 are the cause of microphthalmia syndromic type 5 (MCOPS5) [MIM:610125]. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues. Up to 80% of cases of microphthalmia occur in association with syndromes that include non-ocular abnormalities. MCOPS5 patients manifest unilateral or bilateral microphthalmia/clinical anophthalmia and variable additional features including coloboma, microcornea, cataract, retinal dystrophy, hypoplasia or agenesis of the optic nerve, agenesis of the corpus callosum, developmental delay, joint laxity, hypotonia, and seizures.
Sequence similarities	Belongs to the paired homeobox family. Bicoid subfamily. Contains 1 homeobox DNA-binding domain.
Developmental stage	Embryo.
Cellular localization	Nucleus.

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