abcam

Product datasheet

Recombinant Human IRF6 protein ab114891

1 Image

Overview

Product name	Recombinant Human IRF6 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ

Amino Acid Sequence

Accession	O14896
Species	Human
Sequence	PFEIYLCFGEEWPDGKPLERKLILVQVIPVVARMIYEMFSGDFTRSFDSG SVRLQISTPDIKDNIVAQLKQLYRILQTQESWQPMQPTPSMQLPPALPPQ
Molecular weight	37 kDa including tags
Amino acids	368 to 467

Specifications

Our Abpromise guarantee covers the use of **ab114891** in the following tested applications.

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

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml. Best use within three months from the date of receipt of this protein.

Preparation and Storage

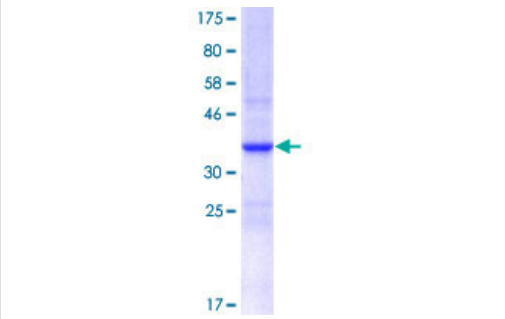
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Probable DNA-binding transcriptional activator. Key determinant of the keratinocyte proliferation-differentiation switch involved in appropriate epidermal development (By similarity). Plays a role in regulating mammary epithelial cell proliferation.
Tissue specificity	Expressed in normal mammary epithelial cells. Expression is reduced or absent in breast carcinomas.
Involvement in disease	Defects in IRF6 are a cause of van der Woude syndrome (VWS) [MIM:119300]; also known as lip-pit syndrome (LPS). It is an autosomal dominant developmental disorder characterized by lower lip pits, cleft lip and/or cleft palate. Penetrance is incomplete. Van der Woude and popliteal pterygium syndrome are allelic disorders. Defects in IRF6 are the cause of popliteal pterygium syndrome (PPS) [MIM:119500]. PPS is an autosomal dominant developmental disorder characterized by cleft lip and/or cleft palate, and skin and genital anomalies. Penetrance is incomplete and expressivity is variable. It shows orofacial phenotypic similarities with van der Woude syndrome. Van der Woude and popliteal pterygium syndrome are allelic disorders. Genetic variation in IRF6 is associated with non-syndromic orofacial cleft type 6 (OFC6) [MIM:608864]; also called non-syndromic cleft lip with or without cleft palate 6. Non-syndromic orofacial cleft is a common birth defect consisting of cleft lips with or without cleft palate. Cleft lips are associated with cleft palate in two-third of cases. A cleft lip can occur on one or both sides and range in severity from a simple notch in the upper lip to a complete opening in the lip extending into the floor of the nostril and involving the upper gum.
Sequence similarities	Belongs to the IRF family. Contains 1 IRF tryptophan pentad repeat DNA-binding domain.
Post-translational modifications	Phosphorylated. Phosphorylation status depends on the cell cycle and is a signal for ubiquitination and proteasome-mediated degradation.
Cellular localization	Nucleus. Cytoplasm. Translocates to nucleus in response to an activating signal.

Images



SDS-PAGE - IRF6 protein (ab114891)

12.5% SDS-PAGE showing ab114891 at approximately 36.63kDa.
Stained with Coomassie Blue.

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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