

Human FANCA / FACA Protein (His Tag)

Catalog Number: 11980-H07B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

FA; FA-H; FA1; FAA; FACA; FAH; FANCH; AW208693; FACA

Protein Construction:

A DNA sequence encoding the human FANCA (AAH08979.1) (Met 1-Cys 297) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human FANCA consists of 316 amino acids and predicts a molecular mass of 35.2 kDa. It migrates as an approximately 35 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 200mM NaCl, pH 8.5, 20% gly, 0.1% Triton, 1mM TCEP

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

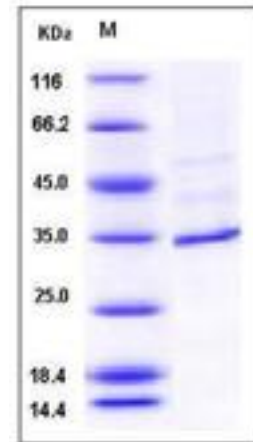
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

FANCA is one of the six known Fanconi anemia gene products (FANCA, FANCC, FANCD2, FANCE, FANCF, and FANCG proteins). Fanconi anemia (FA) is a genetic disorder predisposing to aplastic anemia and cancer characterized by hypersensitivity to DNA-damaging agents and oxidative stress. FANCA associates with the IκB kinase (IKK) signalsome via interaction with IKK2. Components of the FANCA complex undergo rapid, stimulus-dependent changes in phosphorylation, which are blocked by kinase-inactive IKK2.

References

- 1.Otsuki T, *et al.* (2002) Fanconi anemia protein complex is a novel target of the IKK signalsome. *J Cell Biochem.* 86 (4): 613-23.
- 2.Taniguchi T, *et al.* (2002) The Fanconi anemia protein, FANCE, promotes the nuclear accumulation of FANCC. *Blood.* 100 (7): 2457-62.
- 3.Garcia-Higuera I, *et al.* (1999) Fanconi anemia proteins FANCA, FANCC, and FANCG / XRCC9 interact in a functional nuclear complex. *Mol Cell Biol.* 19 (7): 4866-73.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>