

eIF2beta/EIF2S2 Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID NP_003899.2

Catalog No. A301-743A

GeneID 8894

Lot No. A301-743A-1



APPLICATIONS	WB, IP, IHC
SPECIES REACTIVITY	Human, Mouse
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Rabbit and Orangutan
AMOUNT	100 µl
CONCENTRATION	200 µg/ml
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
ISOTYPE	IgG
ORIGIN	USA
PRODUCTION PROCEDURES	Antibody was affinity purified using an epitope specific to eIF2beta/EIF2S2 immobilized on solid support.

The epitope recognized by A301-743A maps to a region between residue 283 and 333 of human eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa using the numbering given in entry NP_003899.2 (GeneID 8894).

Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.

APPLICATIONS Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot 1:2,000 - 1:10,000

Immunoprecipitation 2 - 5 µg/mg lysate

Immunohistochemistry 1:100 - 1:500. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.

APPLICATION NOTES Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-20% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).

Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.

IHC HUMAN CONTROLS Breast Carcinoma

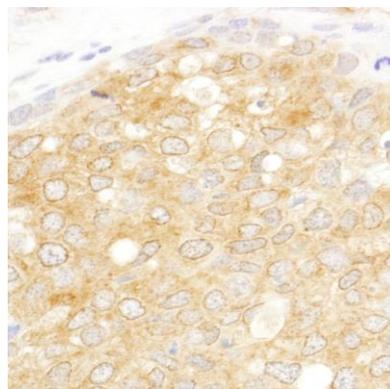
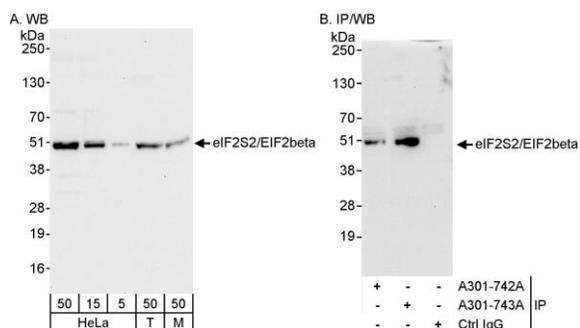
IHC MOUSE CONTROLS Teratoma

ADDITIONAL INFO <https://www.bethyl.com/product/A301-743A>

Use the link above to view SDS, a current list of citations, and other product specific information.

IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.
Eric McIntush, PhD | Chief Scientific Officer Date: June 21, 2019



Detection of human and mouse eIF2beta/EIF2S2 by western blot (h&m) and immunoprecipitation (h).

Samples: Whole cell lysate from HeLa (5, 15 and 50 μ g for WB; 1 mg for IP, 20% of IP loaded), HEK293T (T; 50 μ g), and mouse NIH 3T3 (M; 50 μ g) cells. **Antibodies:** Affinity purified rabbit anti-eIF2beta/EIF2S2 antibody A301-743A used for WB at 0.04 μ g/ml (A) and 1 μ g/ml (B) and used for IP at 3 μ g/mg lysate. eIF2beta/EIF2S2 was immunoprecipitated less efficiently by rabbit anti-eIF2beta/EIF2S2 antibody A301-742A, which recognizes an upstream epitope. **Detection:** Chemiluminescence with exposure times of 10 seconds (A and B).

Detection of human eIF2beta/EIF2S2 by immunohistochemistry. **Sample:** FFPE section of human breast carcinoma. **Antibody:** Affinity purified rabbit anti-eIF2beta/EIF2S2 (Cat. No. A301-743A) used at a dilution of 1:1,000 (1 μ g/ml). **Detection:** DAB