

Product Datasheet

6X His Epitope Tag Antibody (orb344412)

Catalog Number	orb344412
Category	Antibodies
Description	6X His Tag antibody
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1
Conjugation	Unconjugated
Form/Appearance	Liquid (sterile filtered)
Concentration	1.09 mg/mL
Buffer/Preservatives	Preservative: 0.01% (w/v) Sodium Azide. Stabilizer: None; Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Purity	6X HIS Epitope Tag antibody was purified from concentrated tissue culture supernate by Protein A chromatography and is directed against the 6X His motif and is useful in determining its presence in various assays. This monoclonal anti-6X His tag antibody detects over-expressed proteins containing the 6X His epitope tag. To date, this antibody has reacted with all His tagged proteins so far tested. In western blotting of bacterial extracts, the antibody does not cross-react with endogenous proteins. The antibody recognizes the His-tag (His-His-His-His-His-His) fused to either the amino- or carboxy-termini of targeted proteins in transfected or transformed cells.
Immunogen	HIS Tag antibody was produced in mice by repeated immunizations with 6X His epitope tag peptide H-H-H-H-H-H conjugated to KLH using maleimide.
Tested applications	ELISA, IP, WB

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

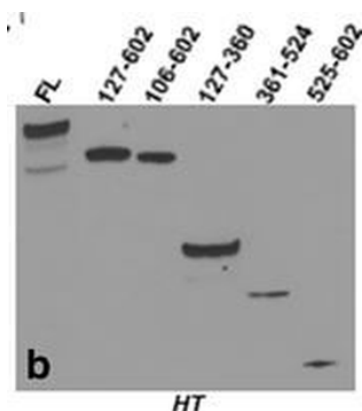
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Dilution range	ELISA: 1:75,000, IP: 1:200, WB: 1:1000
Application notes	Anti-6X His is optimally suited for monitoring expression of His-tagged fusion proteins. As such, Anti-6X His/6XHIS can be used to identify fusion proteins that contain the 6X His epitope. The antibody recognizes the His tag fused either to the amino- or carboxy- termini of targeted proteins. This antibody has been tested by ELISA, SDS-PAGE, and western blotting against both the immunizing peptide and His-containing recombinant proteins. Although not tested, this antibody is likely functional for immunoprecipitation and immunocytochemistry.
Antibody Type	Primary Antibody
Clone Number	33D10.D2.G8
Storage	Store 6X HIS Tag Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Anti-6X HIS Tag is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Dry Ice Shipping	Please note: This product requires shipment on dry ice. A dry ice surcharge will apply.
Note	For research use only
Expiration Date	12 months from date of receipt.



Characterization of purity and antigenicity of CKAP4 constructs. a SDS-PAGE of normalized amounts of purified CKAP4 constructs followed by silver staining. b-f Western blots using anti-His tag, anti-CKAP4 (G1/296), anti-CKAP4 (epitope region: 216-265), anti-CKAP4 (epitope region: 375-425), and anti-CKAP4 (epitope region: 552-602) primary antibody, respectively. Separate blots were used for each antibody. Molecular weight standards are indicated on left and right.

Biorbyt Ltd.

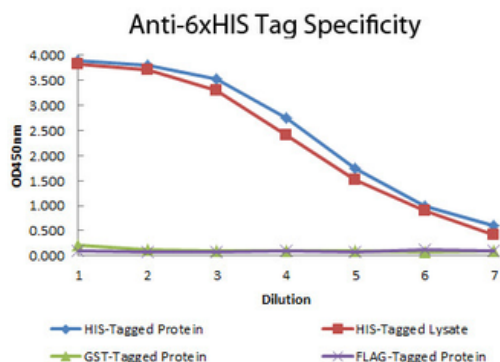
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

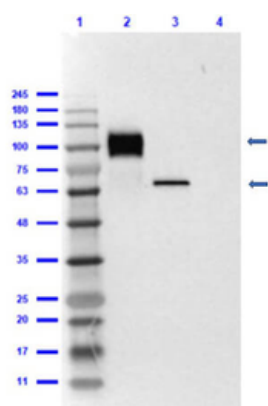
Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

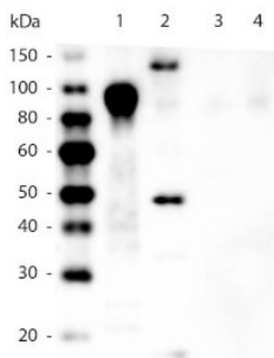
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558



ELISA of Mouse anti-6xHIS Tag Antibody. Antigen: HIS-tagged purified protein and E. coli cell lysates expressing HIS-Tagged construct, GST- and RON-tagged purified proteins. Coating amount: 0.15 ug per well. Primary antibody: 6xHIS Tag antibody at 100 ug/ml. Dilution series: 2-fold. Mid-point concentration: 200 ng/mL. Secondary antibody: Peroxidase mouse secondary antibody at 1:10000. Substrate: TMB (p/n orb348651).



Western Blot of Mouse Anti-6X HIS Epitope Tag Antibody. Lane 1: Opal Prestained Molecular Weight Marker. Lane 2: rec EGF -C-term HIS tag [0.02 µg] [+]. Lane 3: rec Luciferase N-term HIS tag [0.10 µg] [+]. Lane 4: Zic1 - C-myc/DDK Tag [0.10 µg] [-]. Primary Antibody: Mouse Anti-6X HIS at 1.0 µg/ml overnight at 2-8°C. Secondary Antibody: Rabbit Anti-Mouse HRP (p/n orb347506) at 1:40000 for 30 mins at RT. Block: BlockOut Buffer (p/m orb348644) for 1hr at RT. Bands are recognized at the expected MW. Exposure: 2sec.



Western Blot of Mouse anti-6xHIS Tag Antibody. Lane 1: 100 ng Purified histidine-tagged recombinant protein. Lane 2: 200 ng E. coli cell lysate containing histidine-tagged expression construct. Lane 3: 100 ng Purified GST-tagged recombinant protein. Lane 4: 100 ng Purified FLAG-tagged recombinant protein. Primary antibody: Mouse anti-6xHIS Tag antibody at 1:5000 overnight at 4°C. Secondary antibody: Peroxidase mouse secondary antibody at 1:20000 for 30 min at RT. Block: 5% BLOTTO for 1 hr at RT.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558