HSP60 Monoclonal Mouse Antibody (LK2)

Product Description

Recognizes a 60 kDa protein, identified as the heat shock protein 60 (hsp60). Its epitope is localized between aa 383-419 of human hsp60. A wide variety of environmental and pathophysiological stressful conditions trigger the synthesis of a family of proteins known as heat shock proteins (HSPs), more appropriately called as stress response proteins (SRPs). hsp60 is a potential antigen in a number of autoimmune diseases. In human arthritis and in experimentally induced arthritis in animals, disease development coincides with the development of immune reactivity directed against not only bacterial hsp60, but also against its mammalian homolog. Clone LK1, unlike LK2, recognizes only the mammalian (not bacterial) hsp60 and is useful in distinguishing hsp60 from mammals and bacteria. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2.3 weeks for fluorescent protein and enzyme conjugates. Places enzyll grades and up to 2.3 weeks for fluorescent protein and enzyme conjugates. conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 0852, Anti-HSP60 (LK2)

| Pr | od | uct | attributes | |
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Call us: 800-304-5357 Email: btinfo@biotium.com

| Product attributes | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Antibody number | #0852 | | | | | | | |
| Antibody reactivity | HSP60 | | | | | | | |
| (target) Antibody type | Primary | | | | | | | |
| Host species | Mouse | | | | | | | |
| Clonality | Monoclonal | | | | | | | |
| Clone | LK2 | | | | | | | |
| Isotype | IgG2a, kappa | | | | | | | |
| Molecular weight | 60 kDa | | | | | | | |
| Synonyms | 60kDa chaperonin; 60kDa heat shock protein mitchondrial; Chaperonin; 60-KD (CPN60); GROEL; HLD4; HSP65; HSPD1; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein; Short heat shock protein 60 Hsp60s1; Spastic paraplegia 13 (SPG13) | | | | | | | |
| Human gene symbol | HSPD1 | | | | | | | |
| Entrez gene ID | 3329 | | | | | | | |
| SwissProt | P10809 | | | | | | | |
| Unigene | 595053 | | | | | | | |
| Immunogen | Recombinant human HSP60 protein | | | | | | | |
| Antibody target cellular | Mitochondria | | | | | | | |
| Verified antibody applications | IF (verified), IHC (FFPE) (verified), WB (verified) | | | | | | | |
| Species reactivity | Broad reactivity, Human | | | | | | | |
| Antibody application notes | Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Flow Cytometry 0.5-1 ug/mllion cells/0.1 mL, Western blotting 0.25-0.5 ug/mL, Predicted to show broad species reactivity, Optimal dilution for a specific application should be determined by user | | | | | | | |
| Positive control | HeLa or HepG2 cells. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for hsp60. Breast carcinoma. | | | | | | | |
| | from patients with juvenile chronic arthritis. Synovial lining layer is strongly | | | | | | | |
| Shipping condition | from patients with juvenile chronic arthritis. Synovial lining layer is strongly | | | | | | | |
| | from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for hsp60. Breast carcinoma. | | | | | | | |
| Shipping condition | from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for hsp60. Breast carcinoma. Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store | | | | | | | |
| Shipping condition Storage Conditions | from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for hsp60. Breast carcinoma. Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as | | | | | | | |
| Shipping condition Storage Conditions Shelf life | from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for hsp60. Breast carcinoma. Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as recommended | | | | | | | |

| Antibody # prefix | Conjugation | Ex/Em (nm) | Laser line | Detection channel | Dye Features |
|-------------------|-------------|------------|------------|-----------------------------|------------------|
| BNC04 | CF®405S | 404/431 | 405 | DAPI (microscopy), AF405 | CF®405S Features |
| BNC88 | CF®488A | 490/515 | 488 | GFP, FITC | CF®488A Features |
| BNC68 | CF®568 | 562/583 | 532, 561 | RFP, TRITC | CF®568 Features |
| BNC94 | CF®594 | 593/614 | 561 | Texas Red® | CF®594 Features |
| BNC40 | CF®640R | 642/662 | 633-640 | Cy®5 | CF®640R Features |
| BNC47 | CF®647 | 650/665 | 633-640 | Cy®5 | CF®647 Features |
| BNCB | Biotin | N/A | N/A | N/A | |
| BNUB | Purified | N/A | N/A | N/A | |
| BNUM | Purified, | N/A | N/A | N/A | |

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