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Product Specification Sheet

Product: Anti-Cyclin Kit

Code: K-911

Lot # 14473

Contents: Kit contains 100 ul each of Anti-Cyclin A, Anti-Cyclin B₁, Anti-Cyclin D₁, Anti-Cyclin E and one (1) unit of Peroxidase Conjugated Affinity Purified Anti-Rabbit IgG [H&L] (Goat).

Application(s): This kit contains immunological reagents suitable for the analysis of Human, Mouse and Rat cyclins. Reagents are designed for analysis by Western Blotting and ELISA. See Specification Data sheet supplied for each component of this kit.

Storage Conditions: Store kit at -20° C before opening. Follow instructions given for components of kit.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.

Product Specification Sheet

Product: Anti-Cyclin A [Rabbit]

Code: 100-401-151

Lot # 3124

Size: 100 ul

Physical State: Liquid (sterile filtered)

Protein Concentration: 85 mg/ml (by Refractometry)

Buffer: None

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Application(s): Suitable for ELISA, immunoprecipitation, immunoblotting and other immunological methods requiring high titer and specificity.

Recommended Dilution(s): This product was assayed by immunoblot and found to be reactive against Cyclin A at a dilution of 1:250 to 1:500 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-Cyclin A is suitable for the detection by immunoblot of human, rat and mouse Cyclin A. Suggested dilutions for ELISA are 1:500 to 1:2,000. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at -20° C or below prior to opening. Dilute only prior to immediate use. Aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is six (6) months from date of opening product.

Purity and Specificity: This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 60 kDa Cyclin A protein from human, rat and mouse tissue. No reaction was observed against other related cyclins. Cross reactivity with Cyclin A from other species may also occur.

Immunogen: Full length synthetic polypeptide corresponding to the human gene sequence.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.

Reference(s):

Giordano, A., Whyte, P., Harlow, E., Franza, B., Beach D. and Draetta, G. (1989) A 60 kd cdc-2 associated polypeptide complexes with the E1A proteins of adenovirus-infected cells. *Cell* 58; 981-990.

Wang, J., Chenivresse, X., Henglein, B., and Brechot, C. (1990) Hepatitis B virus integration in a cyclin A gene in hepatocellular carcinoma. *Nature* 343; 555-557.

Pines, J. and Hunter, T. (1990) Human cyclin A is adenovirus E1A-associated protein p60 and behaves differently from cyclin B. *Nature* 346; 760-763.

Product Specification Sheet

Product: Anti-Cyclin B₁ [Rabbit]

Code: 100-401-152

Lot # 11757

Size: 100 µl

Physical State: Liquid (sterile filtered)

Protein Concentration: 85 mg/ml (by Refractometry)

Buffer: None

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Application(s): Suitable for ELISA, immunoprecipitation, immunoblotting and other immunological methods requiring high titer and specificity.

Recommended Dilution(s): This product was assayed by immunoblot and found to be reactive against Cyclin B₁ at a dilution of 1:500 to 1:1,000 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-Cyclin B₁ is suitable for the detection by immunoblot of human, rat and mouse Cyclin B₁. Suggested dilutions for ELISA are 1:500 to 1:2,000. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at -20° C or below prior to opening. Dilute only prior to immediate use. Aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is six (6) months from date of opening product.

Purity and Specificity: This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 62 kDa Cyclin B₁ protein from human, rat and mouse tissue. No reaction was observed against other related cyclins. Cross reactivity with Cyclin B₁ from other species may also occur.

Immunogen: Full length synthetic polypeptide corresponding to the human gene sequence.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.

Reference(s):

Giordano, A., Whyte, P., Harlow, E., Franza, B., Beach D. and Draetta, G. (1989) A 60 kd cdc-2 associated polypeptide complexes with the E1A proteins of adenovirus-infected cells. Cell 58; 981-990.

Pines, J. and Hunter, T. (1990) Human cyclin A is adenovirus E1A-associated protein p60 and behaves differently from cyclin B. Nature 346; 760-763.

Product Specification Sheet

Product: Anti-Cyclin D₁ [Rabbit]

Code: 100-401-153

Lot # 11756

Size: 100 µl

Physical State: Liquid (sterile filtered)

Protein Concentration: 85 mg/ml (by Refractometry)

Buffer: None

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Application(s): Suitable for ELISA, immunoprecipitation, immunoblotting and other immunological methods requiring high titer and specificity.

Recommended Dilution(s): This product was assayed by immunoblot and found to be reactive against Cyclin D₁ at a dilution of 1:500 to 1:1000 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-Cyclin D₁ is suitable for the detection by immunoblot of human, rat and mouse Cyclin D₁. Suggested dilutions for ELISA are 1:500 to 1:2,000. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at -20° C or below prior to opening. Dilute only prior to immediate use. Aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is six (6) months from date of opening product.

Purity and Specificity: This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 35 kDa Cyclin D₁ protein from human, rat and mouse tissue. No reaction was observed against other related cyclins. Cross reactivity with Cyclin D₁ from other species may also occur.

Immunogen: Full length synthetic polypeptide corresponding to the human gene sequence.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.

Reference(s):

Xiong, Y., Connolly, T., Futcher, B., and Beach, D. (1991) Human D-type cyclin. *Cell* 65; 691-699.

Motokura, T., Bloom, T., Kim, H.G., Juppner, H., Ruderman, J.V., Kronenberg, H.M. and Arnold, A. (1991) A novel cyclin encoded by a bcl1-linked candidate oncogene. *Nature* 350: 512-515.

Product Specification Sheet**Product:** Anti-Cyclin E [Rabbit]**Code:** 100-401-156**Lot #** 3126**Size:** 100 ul**Physical State:** Liquid (sterile filtered)**Protein Concentration:** 85 mg/ml (by Refractometry)**Buffer:** None**Stabilizer:** None**Preservative:** 0.01% (w/v) Sodium Azide**Application(s):** suitable for ELISA, immunoprecipitation, immunoblotting and other immunological methods requiring high titer and specificity.**Recommended Dilution(s):** This product was assayed by immunoblot and found to be reactive against Cyclin E at a dilution of 1:200 to 1:500 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-Cyclin E is suitable for the detection by immunoblot of human, rat and mouse Cyclin E. Suggested dilution for ELISA is 1:2,000. Optimal titers for other applications should be determined by the researcher.**Storage Conditions:** Store vial at -20° C or below prior to opening. Dilute only prior to immediate use. Aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is six (6) months from date of opening product.**Purity and Specificity:** This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 45 kDa Cyclin E protein from human, rat and mouse tissue. No reaction was observed against other related cyclins. Cross reactivity with Cyclin E from other species may also occur.**Immunogen:** Full length synthetic polypeptide corresponding to the human gene sequence.**Note:** This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.**Reference(s):**

Koff, A., Cross, F., Fisher, A., Schumaker, J., Leguellec, K., Philippe, M. and Roberts, J.M. (1991) Human cyclin E, a new cyclin that interacts with two members of the CDC2 gene family. *Cell* 66; 1217-1228.

Koff, A., Giordano, A., Desai, D., Yamashita, K., Harper, J.W., Elledge, S., Nishimoto, T., Morgan, D.O., Franza, B.R. and Roberts, M. (1992) Formation and activation of a cyclin E-cdk2 complex during the G1 phase of the human cell cycle. *Science* 257; 1689-1694.

Claudio, P.P., De Luca, A., Howard, C.M., Baldi, A., Firpo, E.J., Koff, A., Paggi, M.G. and Giordano, A. (1996) Functional analysis of pRb/p130 intereaction with cyclins. *Cancer Res.* 56; 2003-2008.

Product Specification Sheet

Product: Peroxidase Conjugated Affinity Purified anti-Rabbit IgG [H&L] [Goat]

Code: 611-1302

Lot # 13870

Size: 2.0 mg

Physical State: Lyophilized

Antibody Concentration: 2.0 mg/ml (by UV absorbance at 280 nm)

Label: Horseradish Peroxidase (HRP)

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 10 mg/ml Bovine Serum Albumin (BSA) IgG and Protease free

Preservative: 0.01% (w/v) Gentamicin Sulfate

Application(s): Suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency.

Recommended Dilution(s): This product has been assayed against 1.0 µg of Rabbit IgG in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:51,000 to 1:215,000 is suggested for this product. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at 4° C prior to restoration. Restore with 1.0 ml of deionized water (or equivalent). For extended storage mix with glycerol to 50% and then aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.

Purity and Specificity: This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rabbit IgG coupled to agarose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Rabbit IgG and Rabbit Serum.

Immunogen: Rabbit IgG, whole molecule

Conjugation Reference: Farr & Nakane, *J. Immunol. Methods* **47**; 129-144. 1981.

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